

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-LD5-16-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-LD5-16-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

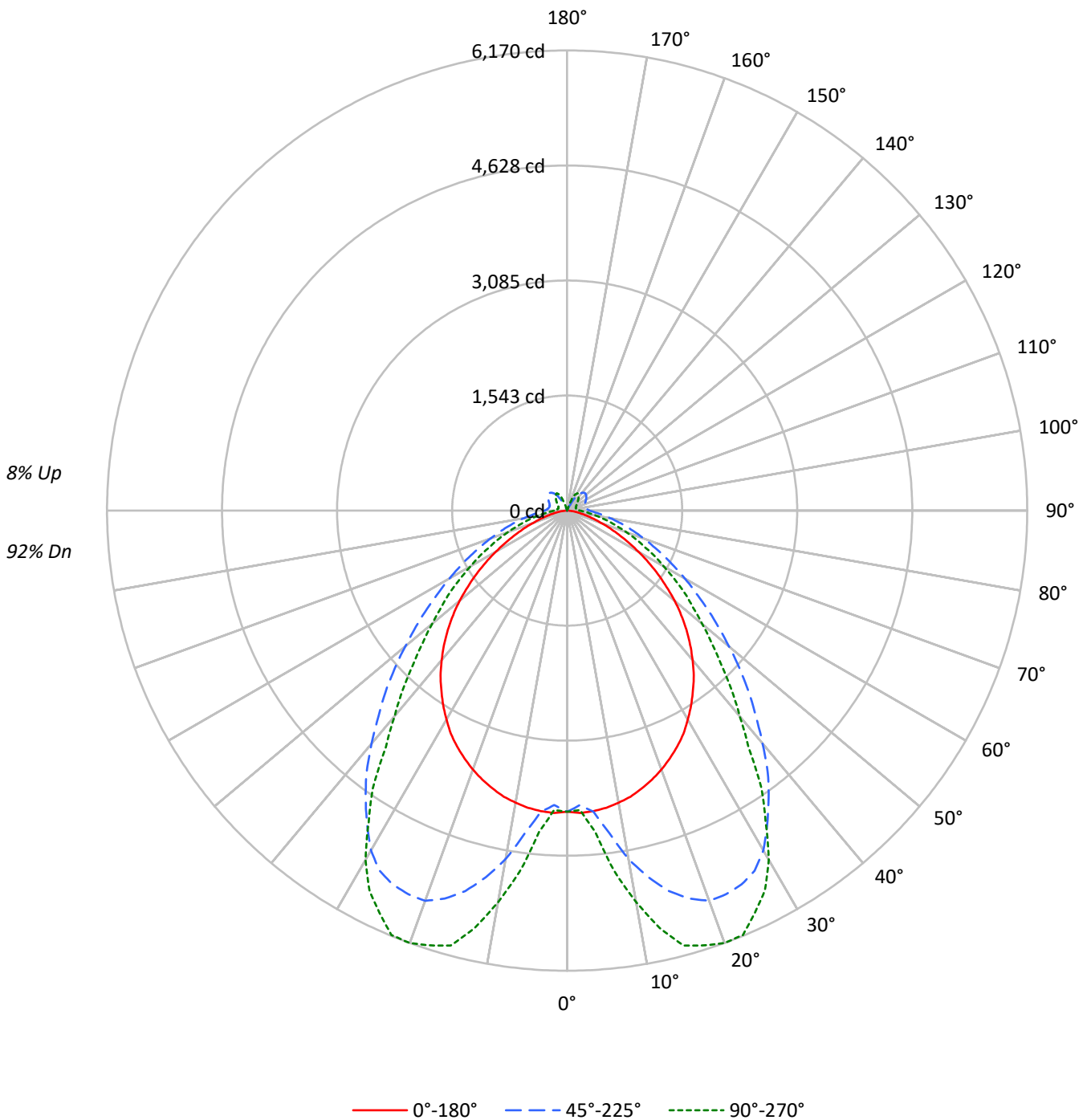
Lumens per Lamp: N/A
Luminaire Lumens: 14664.0 lumens
Efficiency: N/A
Efficacy: 112.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.53 / 1.51
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.29')
CIE Type: Direct

Input Watts (W): 130.5
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°	21737	21737	21737
5°	21782	20377	21207
10°	21598	22544	24159
15°	21291	23961	25627
20°	20892	24349	24805
25°	20379	23521	22892
30°	19687	21925	20080
35°	18844	19394	16438
40°	17838	16718	12784
45°	16611	14182	10256
50°	15099	11776	8277
55°	13267	9691	6776
60°	11170	7939	5343
65°	8984	6439	4142
70°	6913	5146	3157
75°	5149	4065	2285
80°	3611	3130	1620
85°	2158	2361	1109



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	413.5	2.8
10°-20°	1438.7	9.8
20°-30°	2368.7	16.2
30°-40°	2661.1	18.1
40°-50°	2368.1	16.1
50°-60°	1831.4	12.5
60°-70°	1243.6	8.5
70°-80°	742.2	5.1
80°-90°	398.1	2.7
90°-100°	262.0	1.8
100°-110°	222.2	1.5
110°-120°	205.6	1.4
120°-130°	191.5	1.3
130°-140°	162.4	1.1
140°-150°	110.9	0.8
150°-160°	42.9	0.3
160°-170°	1.3	0.0
170°-180°	0.0	0.0
0°-30°	4220.9	28.8
0°-40°	6881.9	46.9
0°-60°	11081.4	75.6
0°-90°	13465.2	91.8
90°-120°	689.7	4.7
90°-150°	1154.6	7.9
90°-180°	1199.0	8.2
0°-180°	14664.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4039	4039	4039	4039	4039	
5°	4045	3989	4053	4268	4326	384
15°	3858	4334	5281	5940	6037	1088
25°	3490	4482	5532	5966	5952	1606
35°	2941	4037	4710	4667	4546	1838
45°	2262	3120	3448	3153	2920	1740
55°	1488	2125	2288	2076	1925	1329
65°	761	1321	1428	1288	1139	767
75°	281	796	816	703	588	308
85°	50	501	410	321	258	61
90°	4	426	299	218	168	4
95°	2	412	262	184	141	1
105°	2	374	242	156	121	1
115°	2	345	269	170	133	2
125°	2	283	313	208	162	2
135°	2	109	335	267	210	2
145°	2	10	260	303	262	1
155°	2	6	57	200	222	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#

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	4038.8	4038.8	4038.8	4038.8	4038.8	4038.8	4038.8	4038.8	4038.8	4038.8	4038.8
2.5°	4058.6	4042.7	4015.0	4013.0	3995.2	3987.3	3989.2	3983.3	3977.4	3967.4	3951.6
5°	4044.7	4015.0	3969.4	3969.4	3979.3	3989.2	4013.0	4034.8	4040.7	4054.6	4052.6
7.5°	4018.9	3973.4	3929.8	3965.5	4001.1	4015.0	4042.7	4082.3	4143.7	4256.6	4367.6
10°	3977.4	3915.9	3902.1	3959.5	4007.1	4048.7	4112.0	4296.3	4466.6	4635.0	4743.9
12.5°	3929.8	3854.5	3874.4	3947.6	4058.6	4137.8	4300.2	4543.8	4678.5	4874.6	5035.1
15°	3858.5	3787.2	3822.9	3931.8	4163.5	4333.9	4425.0	4722.1	4938.0	5100.4	5280.7
17.5°	3781.3	3717.9	3767.4	3959.5	4274.5	4438.9	4585.4	4837.0	5045.0	5284.6	5455.0
20°	3696.1	3640.6	3704.0	3995.2	4327.9	4496.3	4658.7	4898.4	5173.7	5421.3	5567.9
22.5°	3597.0	3547.5	3644.6	4011.0	4347.8	4516.1	4674.6	4953.9	5239.1	5443.1	5567.9
25°	3490.1	3440.6	3573.3	3979.3	4327.9	4482.4	4652.8	4983.6	5217.3	5377.7	5532.2
27.5°	3375.2	3319.7	3519.8	3914.0	4248.7	4423.0	4615.2	4926.1	5110.3	5288.6	5445.1
30°	3234.6	3185.1	3426.7	3818.9	4137.8	4343.8	4508.2	4787.5	4963.8	5140.1	5260.9
32.5°	3093.9	3046.4	3313.8	3684.2	4011.0	4205.1	4363.6	4581.5	4781.5	4918.2	4993.5
35°	2941.4	2887.9	3183.1	3519.8	3868.4	4036.8	4169.5	4367.6	4535.9	4636.9	4710.2
37.5°	2788.9	2731.5	3016.7	3347.5	3680.2	3834.7	3945.7	4145.7	4274.5	4357.7	4419.1
40°	2616.6	2557.2	2844.4	3153.4	3484.1	3593.1	3708.0	3886.2	3981.3	4048.7	4078.4
42.5°	2442.3	2382.8	2658.2	2949.3	3244.5	3351.4	3470.3	3610.9	3704.0	3743.6	3743.6
45°	2262.0	2204.6	2466.0	2747.3	2996.9	3119.7	3224.7	3337.6	3414.8	3446.5	3448.5
47.5°	2073.8	2026.3	2275.9	2531.4	2765.1	2872.1	2953.3	3062.2	3129.6	3137.5	3135.5
50°	1881.7	1840.1	2063.9	2315.5	2523.5	2618.6	2689.9	2790.9	2844.4	2842.4	2832.5
52.5°	1679.7	1653.9	1861.9	2091.7	2279.8	2365.0	2428.4	2517.5	2561.1	2561.1	2553.2
55°	1487.5	1471.7	1651.9	1873.8	2050.1	2125.3	2184.8	2264.0	2299.7	2299.7	2287.8
57.5°	1293.4	1291.5	1459.8	1657.9	1826.3	1893.6	1957.0	2026.3	2058.0	2058.0	2038.2
60°	1103.3	1113.2	1279.6	1461.8	1616.3	1681.7	1737.1	1804.5	1824.3	1828.2	1824.3
62.5°	927.0	952.7	1111.2	1277.6	1432.1	1487.5	1537.1	1602.4	1618.3	1624.2	1614.3
65°	760.6	800.2	960.7	1119.1	1263.7	1321.2	1364.7	1410.3	1424.2	1430.1	1428.1
67.5°	623.9	665.5	826.0	982.5	1115.2	1160.7	1204.3	1243.9	1245.9	1255.8	1247.9
70°	483.3	546.7	707.1	855.7	980.5	1022.1	1057.7	1085.5	1091.4	1093.4	1091.4
72.5°	372.4	447.7	600.2	746.7	859.6	899.3	927.0	948.8	948.8	950.8	944.8
75°	281.3	372.4	520.9	655.6	756.6	796.3	818.1	831.9	824.0	822.0	816.1
77.5°	204.0	309.0	449.6	576.4	671.5	701.2	721.0	723.0	711.1	709.1	697.2
80°	140.6	251.6	388.2	507.1	594.2	623.9	633.8	625.9	616.0	604.1	588.3
82.5°	93.1	204.0	336.7	449.6	530.8	554.6	562.5	550.6	536.8	517.0	491.2
85°	49.5	164.4	293.2	402.1	479.3	501.1	505.1	483.3	461.5	435.8	410.0
87.5°	21.8	134.7	261.5	370.4	437.7	453.6	455.6	431.8	404.1	374.4	342.7
90°	4.0	114.9	241.7	346.6	412.0	425.9	425.9	394.2	366.4	334.7	299.1
92.5°	2.0	108.9	235.7	338.7	404.1	417.9	416.0	382.3	348.6	313.0	277.3
95°	2.0	95.1	221.8	330.8	398.1	412.0	410.0	374.4	338.7	301.1	261.5
97.5°	2.0	79.2	208.0	316.9	388.2	402.1	402.1	368.4	332.8	293.2	251.6
100°	0.0	61.4	192.1	303.1	374.4	392.2	394.2	362.5	324.8	285.2	245.6
102.5°	0.0	41.6	178.3	291.2	364.5	382.3	386.2	360.5	320.9	281.3	241.7
105°	2.0	25.7	160.4	277.3	354.6	374.4	380.3	358.5	318.9	281.3	241.7
107.5°	2.0	17.8	142.6	263.4	346.6	368.4	376.3	358.5	320.9	283.2	245.6
110°	2.0	15.8	120.8	249.6	336.7	360.5	372.4	360.5	324.8	289.2	251.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	2.0	11.9	91.1	231.7	324.8	352.6	368.4	362.5	330.8	295.1	259.5
115°	2.0	9.9	61.4	213.9	313.0	344.7	364.5	364.5	336.7	303.1	269.4
117.5°	2.0	9.9	41.6	190.2	299.1	334.7	356.5	366.4	344.7	311.0	281.3
120°	2.0	7.9	19.8	162.4	281.3	320.9	348.6	366.4	350.6	320.9	291.2
122.5°	2.0	7.9	15.8	124.8	261.5	305.0	336.7	364.5	356.5	328.8	303.1
125°	2.0	5.9	13.9	83.2	235.7	283.2	320.9	358.5	358.5	336.7	313.0
127.5°	2.0	5.9	11.9	59.4	202.0	259.5	299.1	348.6	358.5	342.7	322.9
130°	2.0	5.9	9.9	17.8	154.5	225.8	273.3	332.8	354.6	346.6	328.8
132.5°	2.0	4.0	9.9	13.9	99.0	176.3	237.7	307.0	342.7	346.6	334.7
135°	2.0	4.0	7.9	11.9	71.3	108.9	190.2	275.3	320.9	334.7	334.7
137.5°	2.0	4.0	7.9	9.9	31.7	81.2	118.8	237.7	293.2	318.9	324.8
140°	2.0	4.0	5.9	7.9	11.9	43.6	85.2	188.2	259.5	295.1	311.0
142.5°	2.0	4.0	5.9	7.9	9.9	9.9	51.5	108.9	217.9	263.4	289.2
145°	2.0	4.0	4.0	5.9	7.9	9.9	9.9	83.2	156.5	225.8	259.5
147.5°	2.0	2.0	4.0	5.9	7.9	7.9	7.9	37.6	93.1	172.3	221.8
150°	2.0	2.0	4.0	4.0	5.9	5.9	7.9	7.9	61.4	97.1	164.4
152.5°	2.0	2.0	4.0	4.0	5.9	5.9	5.9	7.9	7.9	65.4	91.1
155°	2.0	2.0	4.0	4.0	4.0	5.9	5.9	5.9	5.9	7.9	57.4
157.5°	2.0	2.0	4.0	4.0	4.0	4.0	4.0	5.9	5.9	7.9	7.9
160°	2.0	4.0	4.0	4.0	4.0	4.0	4.0	5.9	5.9	5.9	7.9
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°	4038.8	4038.8	4038.8	4038.8	4038.8	4038.8	4038.8	4038.8	4038.8	4038.8
2.5°	3971.4	4001.1	4001.1	4026.9	4040.7	4036.8	4040.7	4048.7	4024.9	4017.0
5°	4096.2	4155.6	4185.3	4252.7	4268.5	4298.2	4308.1	4341.8	4349.7	4326.0
7.5°	4488.4	4611.2	4690.4	4771.6	4807.3	4825.1	4856.8	4878.6	4912.3	4886.5
10°	4856.8	5005.4	5118.3	5207.4	5229.2	5247.0	5284.6	5338.1	5334.2	5330.2
12.5°	5175.7	5306.4	5445.1	5573.8	5639.2	5653.1	5708.5	5773.9	5785.8	5732.3
15°	5439.1	5621.4	5777.9	5914.5	5940.3	5975.9	6017.5	6039.3	6029.4	6037.3
17.5°	5659.0	5813.5	5924.4	5997.7	6013.6	6041.3	6078.9	6106.7	6110.6	6112.6
20°	5746.2	5849.2	5956.1	6057.1	6088.8	6116.6	6162.1	6185.9	6181.9	6170.0
22.5°	5730.3	5880.9	5979.9	6063.1	6094.8	6120.5	6160.1	6176.0	6170.0	6158.2
25°	5706.5	5835.3	5922.5	5966.0	5966.0	5985.8	5975.9	5964.0	5950.2	5952.2
27.5°	5593.6	5668.9	5728.3	5777.9	5783.8	5785.8	5779.8	5768.0	5760.0	5742.2
30°	5363.9	5455.0	5482.7	5478.8	5470.8	5468.9	5445.1	5427.3	5405.5	5407.5
32.5°	5094.5	5114.3	5126.2	5092.5	5072.7	5068.7	5047.0	5017.2	4987.5	4955.8
35°	4747.9	4734.0	4706.3	4682.5	4666.7	4642.9	4611.2	4581.5	4543.8	4545.8
37.5°	4413.1	4369.5	4329.9	4264.6	4252.7	4197.2	4135.8	4088.3	4026.9	3993.2
40°	4064.5	4020.9	3971.4	3900.1	3868.4	3816.9	3749.6	3670.3	3620.8	3601.0
42.5°	3731.7	3678.3	3620.8	3535.6	3496.0	3454.4	3383.1	3305.9	3270.2	3264.3
45°	3406.9	3345.5	3290.0	3195.0	3153.4	3103.8	3030.6	2983.0	2931.5	2919.6
47.5°	3093.9	3040.5	2955.3	2882.0	2842.4	2800.8	2725.5	2681.9	2644.3	2630.4
50°	2790.9	2739.4	2674.0	2592.8	2555.2	2515.6	2462.1	2420.5	2376.9	2363.0
52.5°	2519.5	2468.0	2400.7	2337.3	2299.7	2275.9	2226.4	2178.8	2145.2	2123.4
55°	2258.1	2210.5	2149.1	2089.7	2075.8	2044.1	1986.7	1945.1	1923.3	1925.3
57.5°	2018.4	1976.8	1929.3	1871.8	1850.0	1820.3	1782.7	1733.2	1707.4	1699.5
60°	1800.5	1760.9	1721.3	1677.7	1650.0	1628.2	1576.7	1537.1	1503.4	1499.4
62.5°	1592.5	1562.8	1529.1	1485.6	1461.8	1438.0	1392.5	1354.8	1329.1	1321.2
65°	1412.3	1386.5	1346.9	1311.3	1287.5	1263.7	1220.1	1182.5	1160.7	1138.9
67.5°	1234.0	1212.2	1182.5	1144.9	1123.1	1099.3	1061.7	1020.1	994.3	988.4
70°	1075.5	1051.8	1028.0	988.4	968.6	954.7	913.1	871.5	851.7	843.8
72.5°	938.9	913.1	879.5	851.7	839.8	814.1	774.5	746.7	721.0	705.1
75°	796.3	780.4	756.6	725.0	703.2	685.3	653.6	625.9	604.1	588.3
77.5°	679.4	659.6	639.8	608.1	592.2	576.4	542.7	519.0	497.2	489.2
80°	570.5	552.6	524.9	501.1	487.3	473.4	447.7	421.9	406.1	398.1
82.5°	471.4	455.6	433.8	414.0	398.1	388.2	364.5	342.7	328.8	316.9
85°	390.2	370.4	350.6	332.8	320.9	313.0	295.1	279.3	261.5	257.5
87.5°	320.9	305.0	287.2	269.4	261.5	251.6	235.7	223.8	210.0	204.0
90°	275.3	255.5	239.7	225.8	217.9	211.9	200.1	184.2	174.3	168.4
92.5°	249.6	231.7	217.9	204.0	198.1	192.1	178.3	166.4	156.5	148.6
95°	233.7	215.9	202.0	190.2	184.2	180.2	168.4	156.5	146.6	140.6
97.5°	221.8	202.0	188.2	178.3	172.3	168.4	158.5	148.6	138.7	132.7
100°	211.9	192.1	178.3	168.4	164.4	160.4	150.5	140.6	132.7	126.8
102.5°	208.0	186.2	172.3	164.4	160.4	156.5	146.6	138.7	128.7	122.8
105°	208.0	184.2	170.3	160.4	156.5	152.5	144.6	136.7	126.8	120.8
107.5°	211.9	186.2	170.3	162.4	158.5	154.5	144.6	136.7	126.8	120.8
110°	217.9	192.1	174.3	164.4	160.4	156.5	146.6	138.7	128.7	122.8



TEST NUMBER: P#

CATALOG NUMBER: 8SKB1-LD5-16-W-RS-UNV-L835-CD2-RS-U

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	225.8	198.1	180.2	168.4	164.4	160.4	150.5	142.6	132.7	126.8
115°	235.7	206.0	188.2	174.3	170.3	166.4	156.5	146.6	138.7	132.7
117.5°	247.6	217.9	196.1	182.2	178.3	172.3	162.4	152.5	144.6	138.7
120°	259.5	231.7	208.0	192.1	186.2	180.2	170.3	160.4	150.5	144.6
122.5°	273.3	243.6	219.9	204.0	198.1	192.1	180.2	170.3	160.4	152.5
125°	287.2	259.5	233.7	215.9	208.0	202.0	190.2	178.3	170.3	162.4
127.5°	299.1	273.3	247.6	229.8	221.8	213.9	202.0	190.2	180.2	174.3
130°	309.0	287.2	263.4	243.6	235.7	229.8	213.9	202.0	192.1	186.2
132.5°	318.9	299.1	279.3	259.5	251.6	243.6	229.8	215.9	206.0	198.1
135°	324.8	309.0	293.2	275.3	267.4	257.5	243.6	229.8	217.9	210.0
137.5°	324.8	316.9	303.1	289.2	281.3	273.3	257.5	243.6	231.7	225.8
140°	314.9	316.9	311.0	301.1	293.2	287.2	273.3	257.5	245.6	239.7
142.5°	301.1	307.0	311.0	305.0	301.1	297.1	285.2	271.4	259.5	251.6
145°	279.3	291.2	299.1	305.0	303.1	301.1	291.2	281.3	269.4	261.5
147.5°	251.6	269.4	279.3	293.2	297.1	297.1	293.2	285.2	275.3	269.4
150°	211.9	237.7	255.5	269.4	275.3	283.2	283.2	277.3	271.4	265.4
152.5°	150.5	192.1	217.9	237.7	245.6	253.5	263.4	259.5	251.6	247.6
155°	85.2	105.0	158.5	190.2	200.1	210.0	225.8	229.8	227.8	221.8
157.5°	43.6	71.3	89.1	103.0	108.9	124.8	156.5	178.3	176.3	180.2
160°	9.9	11.9	33.7	63.4	71.3	75.3	83.2	89.1	89.1	85.2
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)