

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: P236405

Luminaire Tested: **SKB4-LD5-18-W-UNV-L850-CD2-U**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P236405
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1710-365-7)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: SKB4-LD5-18-W-UNV-L850-CD2-U
Description: METALUX SKYBAR LED WAVESTREAM LUMINAIRE
4 BLADES WITH WIDE DISTRIBUTION LENS, ALL BLADES VERTICAL
Light Source: (952) 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

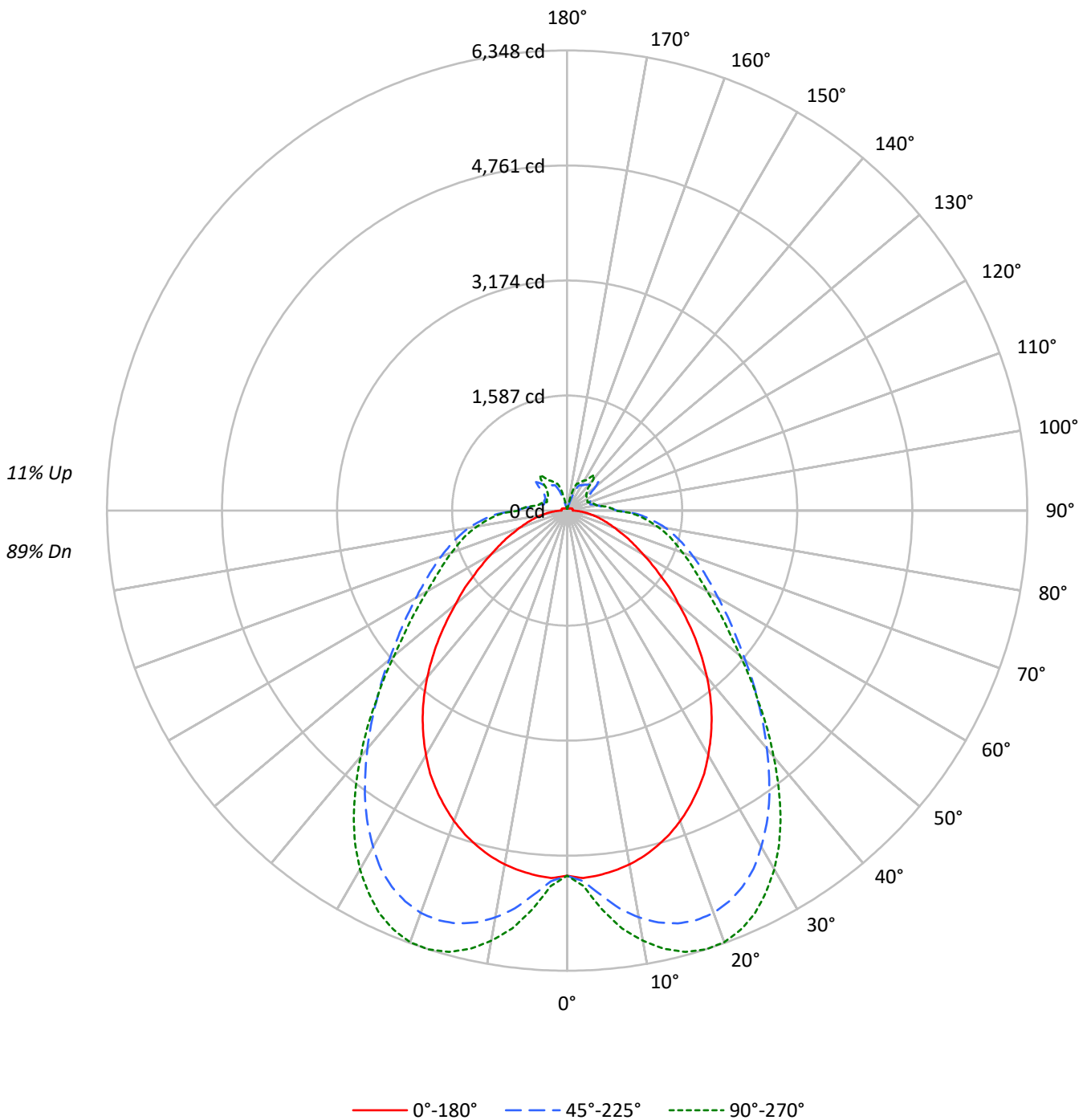
Lumens per Lamp: N/A
Luminaire Lumens: 18967.0 lumens
Efficiency: N/A
Efficacy: 132.3 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.49 / 1.44
Luminous Opening: Rectangular w/ Sides (W: 1.88' x L: 4' x H: 0.21')
CIE Type: Semi-Direct

Input Watts (W): 143.4
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										
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	50	30	10	0														
RCR																																						
0	116	116	116	116	112	112	112	112	105	105	105	98	98	98	92	92	92	89																				
1	105	99	95	90	101	96	92	88	90	86	83	84	81	78	78	76	74	71																				
2	95	86	79	73	91	83	77	71	78	73	68	73	69	65	68	65	62	59																				
3	87	76	67	61	83	73	66	60	69	62	57	65	59	55	61	56	52	50																				
4	79	67	58	52	76	65	57	51	61	54	49	58	52	47	54	49	45	43																				
5	73	60	51	45	70	58	50	44	55	48	42	52	46	41	49	44	39	37																				
6	68	54	45	39	65	53	44	38	50	43	37	47	41	36	44	39	35	32																				
7	63	49	41	34	60	48	40	34	45	38	33	43	37	32	41	35	31	29																				
8	58	45	37	31	56	44	36	30	42	35	29	39	33	29	37	32	28	26																				
9	55	41	33	28	53	40	33	27	38	31	27	36	30	26	35	29	25	23																				
10	51	38	30	25	49	37	30	25	35	29	24	34	28	24	32	27	23	21																				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7229	7229	7229
5°	7241	7589	7878
10°	7157	8140	8613
15°	7020	8498	9094
20°	6834	8657	9300
25°	6585	8605	9230
30°	6264	8320	8901
35°	5875	7881	8342
40°	5388	7323	7596
45°	4829	6774	6817
50°	4212	6292	6137
55°	3684	5954	5678
60°	3193	5753	5372
65°	2856	5736	5304
70°	2565	5898	5450
75°	2394	6257	5828
80°	2266	6896	6388
85°	2200	7812	7438



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	515.1	2.7
10°-20°	1621.2	8.5
20°-30°	2530.6	13.3
30°-40°	2899.2	15.3
40°-50°	2695.5	14.2
50°-60°	2247.8	11.9
60°-70°	1832.3	9.7
70°-80°	1467.5	7.7
80°-90°	1008.0	5.3
90°-100°	503.0	2.7
100°-110°	340.1	1.8
110°-120°	305.6	1.6
120°-130°	301.5	1.6
130°-140°	295.2	1.6
140°-150°	234.0	1.2
150°-160°	128.9	0.7
160°-170°	37.3	0.2
170°-180°	3.9	0.0
0°-30°	4667.0	24.6
0°-40°	7566.2	39.9
0°-60°	12509.5	66.0
0°-90°	16817.3	88.7
90°-120°	1148.7	6.1
90°-150°	1979.5	10.4
90°-180°	2150.0	11.3
0°-180°	18967.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5037	5037	5037	5037	5037	
5°	5049	5124	5321	5455	5522	479
15°	4790	5344	5896	6199	6303	1349
25°	4259	5088	5726	6025	6131	1958
35°	3476	4310	4862	5102	5132	2166
45°	2503	3257	3723	3791	3732	1927
55°	1582	2363	2772	2695	2630	1426
65°	935	1767	2107	1986	1934	929
75°	516	1357	1614	1510	1487	547
85°	213	946	1100	1036	1025	204
90°	78	568	682	665	661	52
95°	80	394	537	553	566	64
105°	76	287	334	371	376	81
115°	66	426	339	316	310	66
125°	56	384	382	339	327	50
135°	42	346	537	435	394	33
145°	37	253	437	502	566	23
155°	36	56	382	418	432	17
165°	36	49	67	206	254	10
175°	35	36	41	42	34	3
180°	32	32	32	32	32	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	5036.7	5036.7	5036.7	5036.7	5036.7	5036.7	5036.7	5036.7	5036.7	5036.7	5036.7
2.5°	5073.8	5065.3	5053.7	5068.4	5069.2	5066.1	5067.6	5082.3	5091.5	5108.5	5117.8
5°	5049.1	5046.0	5048.3	5080.0	5109.3	5124.0	5137.9	5184.2	5231.3	5279.2	5320.8
7.5°	5009.7	5015.9	5035.2	5099.3	5163.3	5195.0	5230.5	5317.8	5395.0	5462.9	5534.7
10°	4956.4	4967.3	5015.1	5113.9	5217.4	5266.8	5320.1	5427.4	5533.9	5625.8	5699.1
12.5°	4884.6	4903.9	4983.5	5119.3	5255.2	5320.8	5389.6	5513.8	5626.6	5732.3	5821.1
15°	4790.5	4829.8	4934.1	5107.8	5270.7	5344.0	5418.1	5556.3	5681.4	5798.7	5896.0
17.5°	4684.7	4739.5	4871.5	5071.5	5255.2	5330.9	5411.2	5558.6	5694.5	5818.8	5925.3
20°	4559.6	4626.0	4788.1	5012.0	5201.9	5282.2	5367.9	5523.1	5665.9	5795.6	5906.0
22.5°	4416.8	4497.1	4687.8	4924.0	5117.0	5199.6	5288.4	5450.5	5598.8	5728.5	5835.8
25°	4259.3	4350.4	4561.9	4804.4	4997.4	5088.5	5173.4	5337.8	5480.7	5616.5	5726.2
27.5°	4093.3	4182.9	4408.3	4655.4	4845.3	4937.9	5025.9	5187.3	5331.7	5459.0	5571.0
30°	3893.4	3996.0	4230.0	4471.6	4673.9	4761.9	4840.6	4997.4	5143.3	5262.9	5354.8
32.5°	3691.1	3796.1	4037.7	4282.5	4467.7	4544.2	4629.9	4776.6	4908.6	5026.7	5123.2
35°	3475.7	3588.4	3813.8	4043.9	4223.8	4309.5	4395.2	4536.5	4653.8	4765.8	4861.5
37.5°	3245.6	3347.5	3585.3	3816.2	3975.2	4063.2	4136.5	4263.2	4392.1	4497.1	4574.3
40°	3001.7	3104.3	3340.6	3560.6	3724.3	3803.0	3860.2	3995.3	4113.4	4225.3	4287.1
42.5°	2750.7	2874.3	3094.3	3298.9	3449.4	3540.5	3585.3	3728.1	3834.7	3936.6	4005.3
45°	2502.9	2614.1	2836.4	3037.9	3194.7	3257.2	3321.3	3447.1	3566.8	3653.3	3722.7
47.5°	2249.7	2367.8	2587.8	2786.3	2934.5	3014.8	3087.4	3201.6	3311.2	3395.4	3464.9
50°	2003.4	2143.9	2362.4	2555.4	2702.9	2767.7	2841.1	2969.2	3071.9	3153.7	3205.5
52.5°	1808.1	1924.7	2153.2	2335.4	2486.7	2558.5	2620.3	2762.3	2861.9	2928.3	2972.3
55°	1581.9	1721.6	1942.4	2130.0	2292.2	2363.2	2436.5	2555.4	2649.6	2729.9	2771.6
57.5°	1389.7	1533.3	1758.7	1954.0	2116.1	2191.0	2265.1	2382.5	2477.4	2543.1	2580.1
60°	1212.9	1378.1	1599.6	1794.2	1961.7	2042.0	2110.7	2220.4	2310.7	2379.4	2404.9
62.5°	1063.1	1223.7	1455.3	1655.2	1828.2	1897.7	1964.0	2081.4	2174.0	2228.1	2248.2
65°	934.9	1094.7	1325.6	1529.4	1702.3	1767.2	1835.9	1953.2	2036.6	2093.0	2106.9
67.5°	802.9	978.2	1211.3	1420.5	1583.4	1652.9	1718.5	1835.1	1919.3	1967.1	1974.9
70°	698.7	873.9	1111.0	1324.8	1476.9	1548.7	1612.8	1726.3	1804.2	1852.1	1851.3
72.5°	599.9	779.0	1020.6	1222.9	1381.2	1449.9	1514.0	1627.4	1701.6	1733.2	1727.8
75°	515.7	689.4	939.6	1131.8	1287.7	1357.2	1425.2	1527.1	1589.6	1618.2	1614.3
77.5°	430.8	608.4	860.0	1048.4	1200.5	1266.1	1330.2	1421.3	1486.2	1508.5	1495.4
80°	355.1	535.8	777.4	962.7	1111.7	1166.5	1224.4	1315.5	1366.5	1389.7	1380.4
82.5°	283.3	466.3	697.1	870.1	1006.0	1063.1	1118.7	1195.1	1243.0	1257.6	1241.4
85°	213.1	393.0	609.1	768.9	890.9	946.5	990.5	1063.1	1100.1	1111.7	1100.1
87.5°	148.2	319.6	515.7	653.9	760.5	806.8	843.8	907.1	936.5	951.9	944.2
90°	78.0	213.1	365.9	465.5	539.7	568.2	599.1	642.3	670.9	684.8	681.7
92.5°	75.7	161.4	287.2	377.5	447.0	479.4	515.7	570.5	601.4	623.0	624.6
95°	79.5	133.6	217.7	285.7	358.2	394.5	425.4	467.9	501.0	529.6	536.6
97.5°	78.0	137.4	199.2	256.3	299.5	322.7	355.9	407.6	438.5	457.0	460.1
100°	78.0	145.1	209.2	243.2	287.2	300.3	313.4	341.2	385.2	409.9	422.3
102.5°	77.2	148.2	226.2	245.5	279.5	300.3	310.4	324.3	340.5	362.9	385.2
105°	76.4	150.5	240.1	268.7	274.8	287.2	307.3	327.3	332.0	332.7	333.5
107.5°	75.7	142.8	246.3	315.0	290.3	292.6	298.8	324.3	338.1	335.1	328.9
110°	73.3	123.5	246.3	313.4	317.3	309.6	308.0	318.8	335.1	342.0	335.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	70.3	105.0	242.4	315.0	386.8	345.9	328.9	325.0	331.2	338.9	343.6
115°	65.6	85.7	240.1	315.0	386.0	426.2	369.8	342.0	336.6	337.4	338.9
117.5°	63.3	73.3	245.5	314.2	367.5	420.8	460.1	369.8	351.3	343.6	339.7
120°	61.0	67.9	231.6	310.4	368.3	389.9	447.8	433.9	376.0	357.5	348.2
122.5°	57.9	65.6	208.4	304.2	364.4	389.1	408.4	513.4	417.7	378.3	362.9
125°	55.6	62.5	176.0	304.2	357.5	383.7	405.3	478.7	538.9	413.8	382.2
127.5°	52.5	58.7	139.7	310.4	348.2	375.2	398.4	434.7	531.9	507.2	423.1
130°	48.6	55.6	105.0	287.2	339.7	364.4	388.3	427.7	475.6	563.6	518.0
132.5°	45.5	51.7	70.3	255.5	334.3	354.4	376.8	417.7	450.1	513.4	582.9
135°	41.7	47.9	55.6	217.7	341.2	345.9	365.2	406.9	440.1	465.5	537.3
137.5°	40.1	46.3	53.3	175.3	317.3	354.4	355.9	393.0	428.5	456.3	477.9
140°	38.6	44.8	51.7	118.9	279.5	335.1	364.4	379.8	414.6	443.1	467.1
142.5°	37.1	43.2	49.4	77.2	235.5	298.0	349.0	370.6	399.1	428.5	452.4
145°	37.1	42.5	48.6	57.1	186.1	253.2	308.0	378.3	385.2	410.7	437.0
147.5°	36.3	41.7	47.9	52.5	122.8	196.1	259.4	350.5	383.7	396.1	417.7
150°	36.3	40.9	47.1	51.7	78.7	134.3	203.0	302.6	375.2	388.3	400.7
152.5°	36.3	40.1	47.1	51.0	54.8	81.8	139.7	238.6	323.5	385.2	395.3
155°	36.3	39.4	46.3	50.2	54.0	56.4	78.7	179.1	260.9	330.4	382.2
157.5°	36.3	39.4	45.5	49.4	52.5	54.8	55.6	98.0	192.2	260.9	319.6
160°	36.3	38.6	44.0	48.6	51.0	53.3	54.8	59.4	101.9	185.3	241.6
162.5°	36.3	37.8	42.5	47.1	50.2	51.0	52.5	54.8	57.9	88.8	128.9
165°	36.3	37.1	40.9	45.5	48.6	49.4	50.2	52.5	54.8	56.4	67.2
167.5°	35.5	37.1	39.4	42.5	46.3	47.9	48.6	50.2	51.7	53.3	54.8
170°	35.5	36.3	37.8	40.1	42.5	44.0	45.5	47.1	48.6	49.4	50.2
172.5°	34.7	35.5	36.3	37.8	39.4	40.1	40.9	42.5	44.8	46.3	47.1
175°	34.7	34.7	34.7	35.5	36.3	36.3	37.1	37.8	38.6	40.1	40.9
177.5°	34.0	34.7	34.0	34.0	34.0	34.0	34.0	34.0	34.7	34.7	34.7
180°	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	5036.7	5036.7	5036.7	5036.7	5036.7	5036.7	5036.7	5036.7	5036.7	5036.7
2.5°	5133.2	5141.0	5137.1	5161.0	5168.8	5161.8	5165.7	5173.4	5178.8	5181.9
5°	5358.7	5390.3	5411.9	5446.7	5455.2	5475.2	5485.3	5506.9	5522.3	5521.6
7.5°	5598.8	5641.2	5679.8	5713.8	5737.0	5748.5	5764.0	5793.3	5811.9	5814.9
10°	5777.9	5832.7	5879.8	5923.0	5952.4	5956.2	5994.8	6016.4	6036.5	6025.7
12.5°	5907.6	5965.5	6021.1	6081.3	6099.0	6117.6	6144.6	6177.0	6194.8	6192.5
15°	5986.3	6053.5	6117.6	6175.5	6198.6	6214.1	6250.4	6285.9	6301.3	6302.9
17.5°	6018.0	6089.8	6154.6	6217.2	6238.0	6255.8	6293.6	6326.8	6345.3	6348.4
20°	5999.5	6073.6	6140.7	6203.3	6222.6	6241.9	6279.7	6313.7	6333.7	6335.3
22.5°	5932.3	6005.6	6077.4	6135.3	6153.9	6175.5	6207.9	6241.9	6257.3	6258.1
25°	5816.5	5888.3	5952.4	6005.6	6024.9	6050.4	6082.1	6106.8	6124.5	6130.7
27.5°	5649.7	5718.4	5783.3	5826.5	5850.5	5871.3	5896.0	5933.1	5936.2	5939.2
30°	5435.9	5515.4	5574.8	5610.4	5625.8	5655.9	5672.9	5692.2	5718.4	5715.3
32.5°	5199.6	5273.7	5317.0	5373.3	5385.7	5401.1	5411.2	5435.1	5441.3	5444.4
35°	4934.1	4999.7	5032.1	5078.4	5101.6	5103.9	5116.3	5134.8	5134.8	5131.7
37.5°	4646.9	4715.6	4746.5	4765.0	4773.5	4784.3	4782.7	4792.8	4778.9	4788.1
40°	4365.8	4413.7	4422.2	4440.7	4449.2	4452.3	4446.1	4439.2	4422.2	4432.2
42.5°	4066.3	4100.3	4124.2	4115.7	4121.1	4114.9	4101.8	4081.0	4085.6	4088.7
45°	3771.4	3792.2	3791.4	3813.1	3791.4	3779.1	3766.0	3750.5	3743.6	3732.0
47.5°	3495.0	3504.3	3506.6	3495.0	3476.5	3485.7	3446.3	3435.5	3424.0	3424.7
50°	3227.9	3239.4	3235.6	3211.7	3196.2	3180.0	3156.8	3136.8	3124.4	3112.8
52.5°	2993.2	2989.3	2966.1	2951.5	2931.4	2922.9	2886.6	2877.4	2860.4	2853.4
55°	2782.4	2767.0	2743.0	2720.6	2695.2	2683.6	2661.2	2641.1	2624.9	2629.5
57.5°	2580.1	2562.4	2536.1	2502.9	2485.9	2473.6	2446.6	2435.8	2416.5	2417.2
60°	2400.2	2378.6	2346.2	2315.3	2299.1	2282.9	2262.8	2248.2	2235.8	2231.9
62.5°	2243.5	2218.8	2186.4	2154.7	2137.0	2123.9	2102.2	2086.0	2073.7	2072.9
65°	2096.8	2063.6	2025.8	1998.8	1985.7	1974.1	1957.9	1939.3	1930.9	1933.9
67.5°	1955.6	1924.7	1893.0	1864.5	1849.0	1842.1	1832.8	1819.7	1813.5	1815.8
70°	1828.2	1788.0	1764.1	1740.2	1729.4	1727.0	1713.1	1702.3	1699.2	1695.4
72.5°	1703.9	1671.4	1644.4	1623.6	1620.5	1613.5	1600.4	1597.3	1586.5	1584.2
75°	1588.1	1555.6	1532.5	1513.2	1510.1	1506.2	1497.0	1494.7	1484.6	1486.9
77.5°	1469.2	1442.9	1421.3	1409.0	1398.9	1395.1	1388.1	1382.7	1378.8	1377.3
80°	1344.9	1317.1	1297.8	1288.5	1283.1	1277.7	1273.9	1266.1	1262.3	1260.0
82.5°	1210.5	1188.9	1171.9	1165.8	1161.9	1165.0	1153.4	1152.6	1150.3	1146.5
85°	1080.8	1057.7	1041.5	1038.4	1036.1	1032.2	1030.7	1026.8	1025.3	1025.3
87.5°	924.1	904.0	894.8	900.2	891.7	897.1	896.3	891.7	888.6	899.4
90°	670.9	662.4	657.8	662.4	664.7	663.2	662.4	657.0	660.9	660.9
92.5°	621.5	615.3	616.1	613.8	618.4	619.2	621.5	619.2	622.3	621.5
95°	537.3	538.9	543.5	548.1	552.8	552.8	558.2	561.3	562.0	565.9
97.5°	458.6	456.3	467.1	472.5	470.2	474.0	477.1	483.3	484.8	480.2
100°	422.3	416.9	415.4	413.8	413.8	411.5	411.5	413.8	415.4	411.5
102.5°	388.3	391.4	391.4	389.9	389.9	390.6	391.4	393.0	394.5	393.0
105°	347.4	362.1	366.7	369.8	370.6	371.3	373.7	376.8	376.8	376.0
107.5°	324.3	315.8	327.3	339.7	344.3	348.2	355.1	359.0	360.5	359.8
110°	326.6	316.5	306.5	311.1	308.8	303.4	311.1	320.4	326.6	328.9



TEST NUMBER: P236405

CATALOG NUMBER: SKB4-LD5-18-W-UNV-L850-CD2-U

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	334.3	323.5	317.3	311.1	308.0	305.7	304.2	305.7	305.0	301.9
115°	339.7	332.7	323.5	317.3	315.8	315.0	315.0	313.4	311.9	310.4
117.5°	337.4	334.3	332.0	327.3	326.6	325.0	321.9	319.6	316.5	315.0
120°	340.5	335.1	331.2	329.7	330.4	330.4	328.9	328.1	325.0	323.5
122.5°	351.3	341.2	335.8	333.5	332.0	331.2	329.7	328.1	325.0	323.5
125°	367.5	355.1	346.6	340.5	338.9	337.4	334.3	331.2	328.1	326.6
127.5°	390.6	374.4	364.4	355.9	352.8	349.0	344.3	338.1	335.1	333.5
130°	430.0	402.2	386.8	375.2	369.8	366.7	360.5	354.4	349.0	346.6
132.5°	547.4	450.1	420.8	401.5	397.6	390.6	381.4	374.4	368.3	365.9
135°	592.9	597.6	477.9	446.2	434.7	423.1	412.3	402.2	395.3	393.7
137.5°	545.8	593.7	622.3	578.3	535.0	489.5	464.8	449.3	438.5	432.3
140°	487.2	531.9	584.4	610.7	623.0	630.0	625.3	599.9	567.4	562.8
142.5°	474.0	489.5	504.1	558.2	575.9	589.8	604.5	613.8	619.2	619.2
145°	457.8	475.6	487.2	497.2	501.8	505.7	538.1	559.7	565.9	565.9
147.5°	440.8	456.3	470.9	481.7	487.2	491.8	495.6	498.7	498.0	497.2
150°	419.2	435.4	450.1	462.4	467.9	470.9	477.9	481.0	480.2	478.7
152.5°	399.9	414.6	428.5	438.5	444.7	449.3	454.7	459.4	460.1	459.4
155°	401.5	398.4	406.9	416.9	418.4	423.1	429.2	433.9	432.3	432.3
157.5°	364.4	393.7	405.3	400.7	399.9	401.5	403.8	407.6	407.6	405.3
160°	288.0	328.9	359.0	386.8	391.4	396.8	402.2	403.0	399.9	396.1
162.5°	197.6	230.1	271.0	301.1	311.1	321.9	336.6	347.4	351.3	346.6
165°	88.8	113.5	166.8	190.7	206.1	214.6	227.7	236.2	247.1	254.0
167.5°	55.6	57.9	67.9	74.9	82.6	90.3	95.7	102.7	108.9	120.4
170°	51.0	51.7	52.5	52.5	52.5	51.7	51.0	49.4	48.6	46.3
172.5°	47.9	47.9	47.9	47.1	47.9	47.1	46.3	44.8	41.7	39.4
175°	41.7	42.5	41.7	42.5	41.7	41.7	40.9	38.6	35.5	34.0
177.5°	34.7	34.7	34.7	34.0	33.2	32.4	31.7	29.3	27.0	24.7
180°	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7

(END OF REPORT)