

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: P236404

Luminaire Tested: **SKB4-LD5-18-W-UNV-L840-CD2-U**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P236404
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-L840-CD2-U
Description: METALUX SKYBAR LED WAVESTREAM LUMINAIRE
4 BLADES WITH WIDE DISTRIBUTION LENS, ALL BLADES VERTICAL
Light Source: (952) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

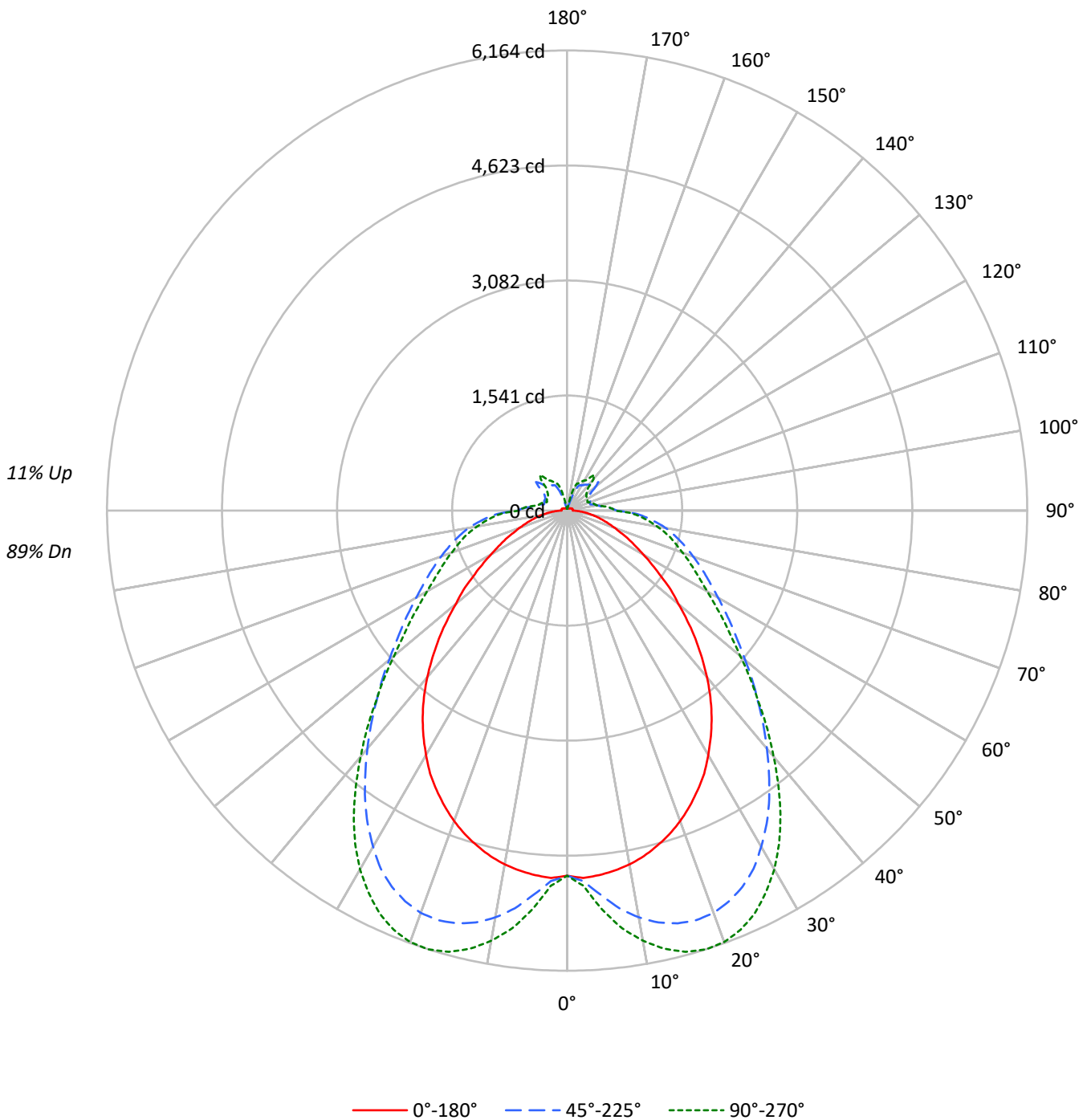
Lumens per Lamp: N/A
Luminaire Lumens: 18415.0 lumens
Efficiency: N/A
Efficacy: 128.4 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.49 / 1.44
Luminous Opening: Rectangular w/ Sides (W: 1.88' x L: 4' x H: 0.21')
CIE Type: Semi-Direct

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				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	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°	7018	7018	7018
5°	7030	7368	7649
10°	6949	7903	8362
15°	6815	8250	8829
20°	6635	8405	9029
25°	6393	8354	8961
30°	6081	8078	8642
35°	5704	7651	8099
40°	5231	7110	7375
45°	4688	6577	6619
50°	4089	6109	5959
55°	3577	5780	5513
60°	3100	5586	5216
65°	2773	5569	5150
70°	2490	5727	5292
75°	2325	6075	5659
80°	2200	6695	6202
85°	2136	7585	7221



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	500.1	2.7
10°-20°	1574.0	8.5
20°-30°	2457.0	13.3
30°-40°	2814.8	15.3
40°-50°	2617.1	14.2
50°-60°	2182.4	11.9
60°-70°	1779.0	9.7
70°-80°	1424.8	7.7
80°-90°	978.7	5.3
90°-100°	488.4	2.7
100°-110°	330.2	1.8
110°-120°	296.7	1.6
120°-130°	292.7	1.6
130°-140°	286.6	1.6
140°-150°	227.2	1.2
150°-160°	125.2	0.7
160°-170°	36.2	0.2
170°-180°	3.8	0.0
0°-30°	4531.1	24.6
0°-40°	7346.0	39.9
0°-60°	12145.5	66.0
0°-90°	16327.9	88.7
90°-120°	1115.3	6.1
90°-150°	1921.8	10.4
90°-180°	2087.0	11.3
0°-180°	18415.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4890	4890	4890	4890	4890	
5°	4902	4975	5166	5296	5361	465
15°	4651	5188	5724	6018	6119	1310
25°	4135	4940	5560	5850	5952	1901
35°	3374	4184	4720	4953	4982	2103
45°	2430	3162	3614	3681	3623	1871
55°	1536	2294	2691	2617	2553	1384
65°	908	1716	2046	1928	1878	902
75°	501	1318	1567	1466	1444	531
85°	207	919	1068	1006	995	198
90°	76	552	662	645	642	51
95°	77	383	521	537	549	62
105°	74	279	324	360	365	78
115°	64	414	329	307	301	64
125°	54	372	371	329	317	48
135°	40	336	522	422	382	32
145°	36	246	424	487	549	23
155°	35	55	371	406	420	16
165°	35	48	65	200	247	10
175°	34	35	40	40	33	3
180°	31	31	31	31	31	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	4890.1	4890.1	4890.1	4890.1	4890.1	4890.1	4890.1	4890.1	4890.1	4890.1	4890.1
2.5°	4926.1	4917.9	4906.6	4920.9	4921.6	4918.6	4920.1	4934.4	4943.4	4959.9	4968.9
5°	4902.1	4899.1	4901.4	4932.1	4960.6	4974.8	4988.3	5033.3	5079.0	5125.5	5166.0
7.5°	4863.9	4869.9	4888.6	4950.9	5013.1	5043.8	5078.3	5163.0	5237.9	5303.9	5373.6
10°	4812.2	4822.7	4869.2	4965.1	5065.5	5113.5	5165.2	5269.4	5372.9	5462.1	5533.3
12.5°	4742.5	4761.2	4838.4	4970.4	5102.3	5166.0	5232.7	5353.4	5462.8	5565.5	5651.7
15°	4651.0	4689.3	4790.5	4959.1	5117.3	5188.5	5260.4	5394.6	5516.0	5630.0	5724.4
17.5°	4548.3	4601.6	4729.7	4923.9	5102.3	5175.7	5253.7	5396.9	5528.8	5649.5	5752.9
20°	4426.9	4491.4	4648.8	4866.2	5050.6	5128.5	5211.7	5362.4	5501.0	5627.0	5734.2
22.5°	4288.2	4366.2	4551.3	4780.7	4968.1	5048.3	5134.5	5291.9	5435.8	5561.8	5665.9
25°	4135.3	4223.8	4429.2	4664.5	4851.9	4940.4	5022.8	5182.5	5321.1	5453.1	5559.5
27.5°	3974.2	4061.1	4280.0	4519.9	4704.3	4794.2	4879.7	5036.3	5176.5	5300.2	5408.8
30°	3780.0	3879.7	4106.9	4341.5	4537.9	4623.3	4699.8	4851.9	4993.6	5109.8	5199.0
32.5°	3583.7	3685.6	3920.2	4157.8	4337.7	4411.9	4495.1	4637.5	4765.7	4880.4	4974.1
35°	3374.5	3484.0	3702.8	3926.2	4100.9	4184.1	4267.3	4404.4	4518.4	4627.1	4720.0
37.5°	3151.2	3250.1	3481.0	3705.1	3859.5	3945.0	4016.2	4139.1	4264.3	4366.2	4441.2
40°	2914.3	3014.0	3243.4	3457.0	3615.9	3692.3	3747.8	3879.0	3993.7	4102.4	4162.3
42.5°	2670.7	2790.6	3004.2	3202.9	3349.0	3437.5	3481.0	3619.6	3723.1	3822.0	3888.7
45°	2430.1	2538.0	2753.9	2949.5	3101.7	3162.4	3224.6	3346.8	3463.0	3546.9	3614.4
47.5°	2184.2	2298.9	2512.5	2705.2	2849.1	2927.0	2997.5	3108.4	3214.9	3296.6	3364.0
50°	1945.1	2081.5	2293.7	2481.1	2624.2	2687.2	2758.4	2882.8	2982.5	3062.0	3112.2
52.5°	1755.5	1868.7	2090.5	2267.4	2414.3	2484.1	2544.0	2681.9	2778.6	2843.1	2885.8
55°	1535.9	1671.5	1885.9	2068.0	2225.5	2294.4	2365.6	2481.1	2572.5	2650.5	2690.9
57.5°	1349.2	1488.6	1707.5	1897.1	2054.6	2127.3	2199.2	2313.2	2405.3	2469.1	2505.0
60°	1177.6	1338.0	1553.1	1742.0	1904.6	1982.6	2049.3	2155.7	2243.4	2310.2	2334.9
62.5°	1032.1	1188.1	1412.9	1607.1	1775.0	1842.4	1906.9	2020.8	2110.8	2163.2	2182.7
65°	907.7	1062.9	1287.0	1484.9	1652.8	1715.7	1782.5	1896.4	1977.3	2032.1	2045.6
67.5°	779.5	949.7	1176.1	1379.2	1537.4	1604.8	1668.5	1781.7	1863.4	1909.9	1917.4
70°	678.4	848.5	1078.6	1286.3	1433.9	1503.6	1565.8	1676.0	1751.7	1798.2	1797.5
72.5°	582.4	756.3	990.9	1187.3	1341.0	1407.7	1469.9	1580.1	1652.0	1682.8	1677.5
75°	500.7	669.4	912.2	1098.9	1250.3	1317.7	1383.7	1482.6	1543.4	1571.1	1567.3
77.5°	418.3	590.7	835.0	1017.9	1165.6	1229.3	1291.5	1379.9	1442.9	1464.6	1451.9
80°	344.8	520.2	754.8	934.7	1079.4	1132.6	1188.8	1277.3	1326.7	1349.2	1340.2
82.5°	275.1	452.7	676.9	844.8	976.7	1032.1	1086.1	1160.3	1206.8	1221.0	1205.3
85°	206.9	381.5	591.4	746.6	865.0	919.0	961.7	1032.1	1068.1	1079.4	1068.1
87.5°	143.9	310.3	500.7	634.9	738.3	783.3	819.3	880.7	909.2	924.2	916.7
90°	75.7	206.9	355.3	452.0	523.9	551.7	581.7	623.6	651.4	664.9	661.9
92.5°	73.5	156.7	278.8	366.5	434.0	465.5	500.7	553.9	583.9	604.9	606.4
95°	77.2	129.7	211.4	277.3	347.8	383.0	413.0	454.2	486.5	514.2	520.9
97.5°	75.7	133.4	193.4	248.9	290.8	313.3	345.5	395.8	425.8	443.7	446.7
100°	75.7	140.9	203.1	236.1	278.8	291.6	304.3	331.3	374.0	398.0	410.0
102.5°	75.0	143.9	219.6	238.4	271.3	291.6	301.3	314.8	330.6	352.3	374.0
105°	74.2	146.2	233.1	260.8	266.8	278.8	298.3	317.8	322.3	323.1	323.8
107.5°	73.5	138.7	239.1	305.8	281.8	284.1	290.1	314.8	328.3	325.3	319.3
110°	71.2	119.9	239.1	304.3	308.1	300.6	299.1	309.6	325.3	332.1	325.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	68.2	101.9	235.4	305.8	375.5	335.8	319.3	315.6	321.6	329.1	333.6
115°	63.7	83.2	233.1	305.8	374.8	413.8	359.0	332.1	326.8	327.6	329.1
117.5°	61.5	71.2	238.4	305.1	356.8	408.5	446.7	359.0	341.1	333.6	329.8
120°	59.2	66.0	224.9	301.3	357.5	378.5	434.7	421.3	365.0	347.0	338.1
122.5°	56.2	63.7	202.4	295.3	353.8	377.8	396.5	498.5	405.5	367.3	352.3
125°	54.0	60.7	170.9	295.3	347.0	372.5	393.5	464.7	523.2	401.8	371.0
127.5°	51.0	57.0	135.7	301.3	338.1	364.3	386.8	422.0	516.4	492.5	410.8
130°	47.2	54.0	101.9	278.8	329.8	353.8	377.0	415.3	461.7	547.2	503.0
132.5°	44.2	50.2	68.2	248.1	324.6	344.0	365.8	405.5	437.0	498.5	565.9
135°	40.5	46.5	54.0	211.4	331.3	335.8	354.5	395.0	427.3	452.0	521.7
137.5°	39.0	45.0	51.7	170.2	308.1	344.0	345.5	381.5	416.0	443.0	464.0
140°	37.5	43.5	50.2	115.4	271.3	325.3	353.8	368.8	402.5	430.2	453.5
142.5°	36.0	42.0	48.0	75.0	228.6	289.3	338.8	359.8	387.5	416.0	439.2
145°	36.0	41.2	47.2	55.5	180.6	245.9	299.1	367.3	374.0	398.8	424.3
147.5°	35.2	40.5	46.5	51.0	119.2	190.4	251.9	340.3	372.5	384.5	405.5
150°	35.2	39.7	45.7	50.2	76.5	130.4	197.1	293.8	364.3	377.0	389.0
152.5°	35.2	39.0	45.7	49.5	53.2	79.5	135.7	231.6	314.1	374.0	383.8
155°	35.2	38.2	45.0	48.7	52.5	54.7	76.5	173.9	253.4	320.8	371.0
157.5°	35.2	38.2	44.2	48.0	51.0	53.2	54.0	95.2	186.6	253.4	310.3
160°	35.2	37.5	42.7	47.2	49.5	51.7	53.2	57.7	98.9	179.9	234.6
162.5°	35.2	36.7	41.2	45.7	48.7	49.5	51.0	53.2	56.2	86.2	125.2
165°	35.2	36.0	39.7	44.2	47.2	48.0	48.7	51.0	53.2	54.7	65.2
167.5°	34.5	36.0	38.2	41.2	45.0	46.5	47.2	48.7	50.2	51.7	53.2
170°	34.5	35.2	36.7	39.0	41.2	42.7	44.2	45.7	47.2	48.0	48.7
172.5°	33.7	34.5	35.2	36.7	38.2	39.0	39.7	41.2	43.5	45.0	45.7
175°	33.7	33.7	33.7	34.5	35.2	35.2	36.0	36.7	37.5	39.0	39.7
177.5°	33.0	33.7	33.0	33.0	33.0	33.0	33.0	33.0	33.7	33.7	33.7
180°	30.7	30.7	30.7	30.7	30.7	30.7	30.7	30.7	30.7	30.7	30.7



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	4890.1	4890.1	4890.1	4890.1	4890.1	4890.1	4890.1	4890.1	4890.1	4890.1
2.5°	4983.8	4991.3	4987.6	5010.8	5018.3	5011.6	5015.3	5022.8	5028.1	5031.1
5°	5202.7	5233.4	5254.4	5288.2	5296.4	5315.9	5325.6	5346.6	5361.6	5360.9
7.5°	5435.8	5477.1	5514.5	5547.5	5570.0	5581.2	5596.2	5624.7	5642.7	5645.7
10°	5609.7	5662.9	5708.7	5750.6	5779.1	5782.9	5820.4	5841.3	5860.8	5850.3
12.5°	5735.7	5791.9	5845.8	5904.3	5921.5	5939.5	5965.8	5997.3	6014.5	6012.2
15°	5812.1	5877.3	5939.5	5995.8	6018.2	6033.2	6068.5	6102.9	6117.9	6119.4
17.5°	5842.8	5912.6	5975.5	6036.2	6056.5	6073.7	6110.4	6142.7	6160.7	6163.7
20°	5824.9	5896.8	5962.0	6022.7	6041.5	6060.2	6096.9	6129.9	6149.4	6150.9
22.5°	5759.6	5830.9	5900.6	5956.8	5974.8	5995.8	6027.2	6060.2	6075.2	6076.0
25°	5647.2	5716.9	5779.1	5830.9	5849.6	5874.3	5905.1	5929.0	5946.3	5952.3
27.5°	5485.3	5552.0	5615.0	5657.0	5680.2	5700.4	5724.4	5760.4	5763.4	5766.4
30°	5277.7	5354.9	5412.6	5447.1	5462.1	5491.3	5507.8	5526.5	5552.0	5549.0
32.5°	5048.3	5120.3	5162.2	5217.0	5229.0	5243.9	5253.7	5276.9	5282.9	5285.9
35°	4790.5	4854.2	4885.7	4930.6	4953.1	4955.4	4967.4	4985.3	4985.3	4982.3
37.5°	4511.6	4578.3	4608.3	4626.3	4634.5	4645.0	4643.5	4653.3	4639.8	4648.8
40°	4238.8	4285.3	4293.5	4311.5	4319.7	4322.7	4316.7	4310.0	4293.5	4303.2
42.5°	3947.9	3980.9	4004.2	3995.9	4001.2	3995.2	3982.4	3962.2	3966.7	3969.7
45°	3661.6	3681.9	3681.1	3702.1	3681.1	3669.1	3656.4	3641.4	3634.6	3623.4
47.5°	3393.3	3402.3	3404.5	3393.3	3375.3	3384.3	3346.0	3335.6	3324.3	3325.1
50°	3133.9	3145.2	3141.4	3118.2	3103.2	3087.5	3065.0	3045.5	3033.5	3022.2
52.5°	2906.1	2902.3	2879.8	2865.6	2846.1	2837.8	2802.6	2793.6	2777.1	2770.4
55°	2701.4	2686.4	2663.2	2641.5	2616.7	2605.5	2583.7	2564.3	2548.5	2553.0
57.5°	2505.0	2487.8	2462.3	2430.1	2413.6	2401.6	2375.4	2364.9	2346.1	2346.9
60°	2330.4	2309.4	2277.9	2247.9	2232.2	2216.5	2197.0	2182.7	2170.7	2167.0
62.5°	2178.2	2154.2	2122.8	2092.0	2074.8	2062.0	2041.1	2025.3	2013.3	2012.6
65°	2035.8	2003.6	1966.9	1940.6	1927.9	1916.6	1900.9	1882.9	1874.7	1877.7
67.5°	1898.6	1868.7	1837.9	1810.2	1795.2	1788.5	1779.5	1766.7	1760.7	1763.0
70°	1775.0	1736.0	1712.8	1689.5	1679.0	1676.8	1663.3	1652.8	1649.8	1646.0
72.5°	1654.3	1622.8	1596.6	1576.3	1573.3	1566.6	1553.8	1550.8	1540.4	1538.1
75°	1541.9	1510.4	1487.9	1469.1	1466.1	1462.4	1453.4	1451.2	1441.4	1443.7
77.5°	1426.4	1400.9	1379.9	1368.0	1358.2	1354.5	1347.7	1342.5	1338.7	1337.2
80°	1305.7	1278.8	1260.0	1251.0	1245.8	1240.5	1236.8	1229.3	1225.5	1223.3
82.5°	1175.3	1154.3	1137.8	1131.8	1128.1	1131.1	1119.8	1119.1	1116.8	1113.1
85°	1049.4	1026.9	1011.2	1008.2	1005.9	1002.2	1000.7	996.9	995.4	995.4
87.5°	897.2	877.7	868.7	874.0	865.7	871.0	870.2	865.7	862.7	873.2
90°	651.4	643.1	638.6	643.1	645.4	643.9	643.1	637.9	641.6	641.6
92.5°	603.4	597.4	598.2	595.9	600.4	601.1	603.4	601.1	604.1	603.4
95°	521.7	523.2	527.7	532.2	536.7	536.7	541.9	544.9	545.7	549.4
97.5°	445.2	443.0	453.5	458.7	456.5	460.2	463.2	469.2	470.7	466.2
100°	410.0	404.8	403.3	401.8	401.8	399.5	399.5	401.8	403.3	399.5
102.5°	377.0	380.0	380.0	378.5	378.5	379.3	380.0	381.5	383.0	381.5
105°	337.3	351.5	356.0	359.0	359.8	360.5	362.8	365.8	365.8	365.0
107.5°	314.8	306.6	317.8	329.8	334.3	338.1	344.8	348.5	350.0	349.3
110°	317.1	307.3	297.6	302.1	299.8	294.6	302.1	311.1	317.1	319.3



TEST NUMBER: P236404

CATALOG NUMBER: SKB4-LD5-18-W-UNV-L840-CD2-U

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	324.6	314.1	308.1	302.1	299.1	296.8	295.3	296.8	296.1	293.1
115°	329.8	323.1	314.1	308.1	306.6	305.8	305.8	304.3	302.8	301.3
117.5°	327.6	324.6	322.3	317.8	317.1	315.6	312.6	310.3	307.3	305.8
120°	330.6	325.3	321.6	320.1	320.8	320.8	319.3	318.6	315.6	314.1
122.5°	341.1	331.3	326.1	323.8	322.3	321.6	320.1	318.6	315.6	314.1
125°	356.8	344.8	336.6	330.6	329.1	327.6	324.6	321.6	318.6	317.1
127.5°	379.3	363.5	353.8	345.5	342.6	338.8	334.3	328.3	325.3	323.8
130°	417.5	390.5	375.5	364.3	359.0	356.0	350.0	344.0	338.8	336.6
132.5°	531.4	437.0	408.5	389.8	386.0	379.3	370.3	363.5	357.5	355.3
135°	575.7	580.2	464.0	433.2	422.0	410.8	400.3	390.5	383.8	382.3
137.5°	529.9	576.4	604.1	561.4	519.4	475.2	451.2	436.2	425.8	419.8
140°	473.0	516.4	567.4	592.9	604.9	611.6	607.1	582.4	550.9	546.4
142.5°	460.2	475.2	489.5	541.9	559.2	572.7	586.9	595.9	601.1	601.1
145°	444.5	461.7	473.0	482.7	487.2	491.0	522.4	543.4	549.4	549.4
147.5°	428.0	443.0	457.2	467.7	473.0	477.5	481.2	484.2	483.5	482.7
150°	407.0	422.8	437.0	449.0	454.2	457.2	464.0	467.0	466.2	464.7
152.5°	388.3	402.5	416.0	425.8	431.7	436.2	441.5	446.0	446.7	446.0
155°	389.8	386.8	395.0	404.8	406.3	410.8	416.8	421.3	419.8	419.8
157.5°	353.8	382.3	393.5	389.0	388.3	389.8	392.0	395.8	395.8	393.5
160°	279.6	319.3	348.5	375.5	380.0	385.3	390.5	391.3	388.3	384.5
162.5°	191.9	223.4	263.1	292.3	302.1	312.6	326.8	337.3	341.1	336.6
165°	86.2	110.2	161.9	185.1	200.1	208.4	221.1	229.4	239.9	246.6
167.5°	54.0	56.2	66.0	72.7	80.2	87.7	92.9	99.7	105.7	116.9
170°	49.5	50.2	51.0	51.0	51.0	50.2	49.5	48.0	47.2	45.0
172.5°	46.5	46.5	46.5	45.7	46.5	45.7	45.0	43.5	40.5	38.2
175°	40.5	41.2	40.5	41.2	40.5	40.5	39.7	37.5	34.5	33.0
177.5°	33.7	33.7	33.7	33.0	32.2	31.5	30.7	28.5	26.2	24.0
180°	30.7	30.7	30.7	30.7	30.7	30.7	30.7	30.7	30.7	30.7

(END OF REPORT)