

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: P236413

Luminaire Tested: **SKB4-LD5-36-W-UNV-L840-CD4-U**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P236413
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-LD5-36-W-UNV-L840-CD4-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

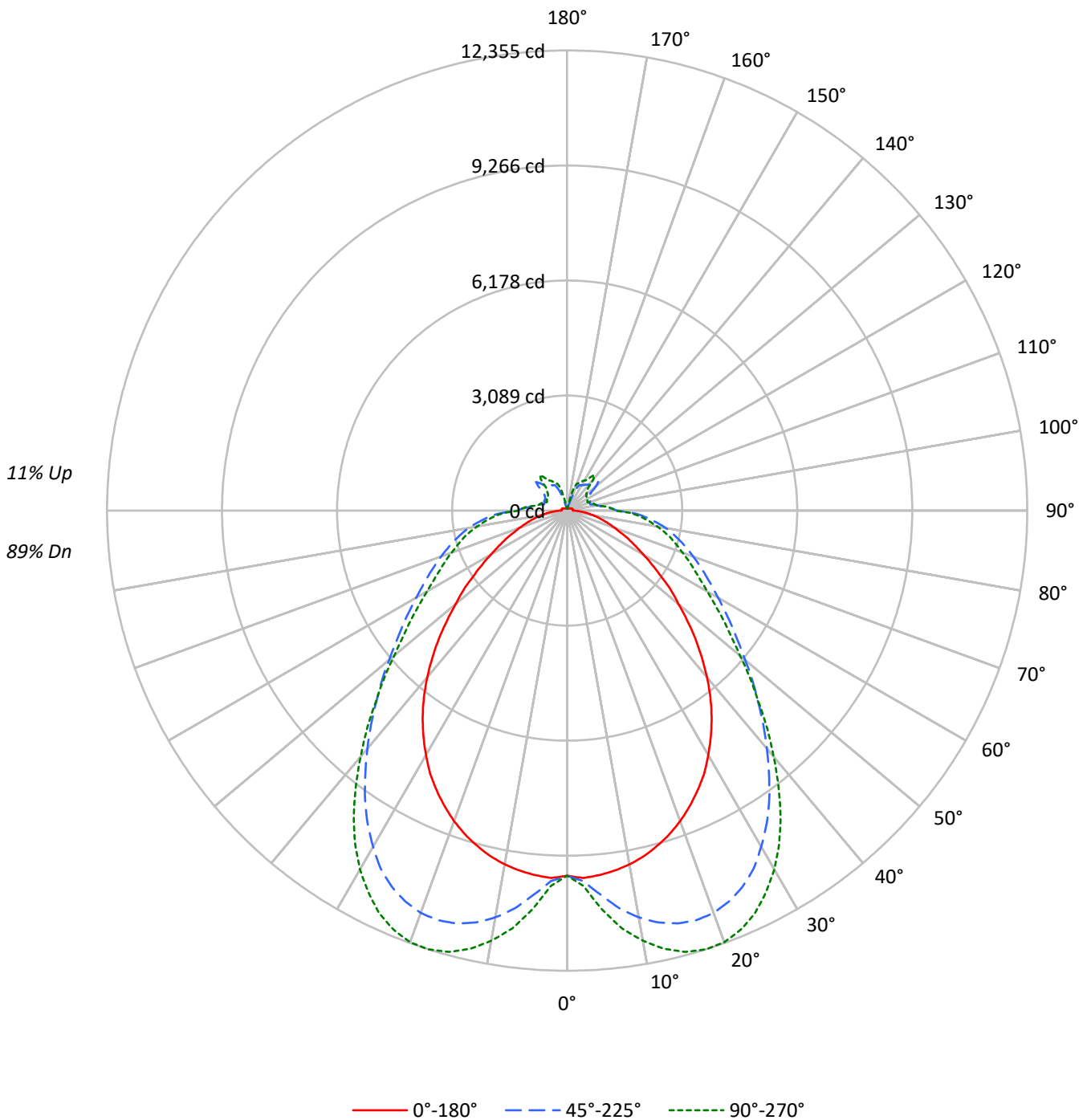
Lumens per Lamp: N/A
Luminaire Lumens: 36914.0 lumens
Efficiency: N/A
Efficacy: 110.7 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.49 / 1.44
Luminous Opening: Rectangular w/ Sides (W: 1.88' x L: 4' x H: 0.21')
CIE Type: Semi-Direct

Input Watts (W): 333.5
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	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°	14069	14069	14069
5°	14093	14770	15333
10°	13930	15842	16762
15°	13662	16538	17699
20°	13301	16848	18099
25°	12816	16747	17964
30°	12191	16192	17322
35°	11435	15338	16235
40°	10487	14252	14783
45°	9398	13184	13268
50°	8197	12245	11945
55°	7170	11587	11052
60°	6215	11197	10456
65°	5558	11162	10322
70°	4992	11480	10608
75°	4660	12177	11343
80°	4410	13421	12433
85°	4281	15204	14475



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1002.6	2.7
10°-20°	3155.3	8.5
20°-30°	4925.1	13.3
30°-40°	5642.5	15.3
40°-50°	5246.1	14.2
50°-60°	4374.8	11.9
60°-70°	3566.0	9.7
70°-80°	2856.0	7.7
80°-90°	1961.9	5.3
90°-100°	979.0	2.7
100°-110°	662.0	1.8
110°-120°	594.7	1.6
120°-130°	586.8	1.6
130°-140°	574.6	1.6
140°-150°	455.4	1.2
150°-160°	250.9	0.7
160°-170°	72.6	0.2
170°-180°	7.7	0.0
0°-30°	9083.0	24.6
0°-40°	14725.5	39.9
0°-60°	24346.4	66.0
0°-90°	32730.3	88.7
90°-120°	2235.7	6.1
90°-150°	3852.5	10.4
90°-180°	4184.0	11.3
0°-180°	36914.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9803	9803	9803	9803	9803	
5°	9827	9972	10356	10617	10746	932
15°	9323	10401	11475	12064	12267	2626
25°	8290	9903	11144	11726	11932	3810
35°	6764	8387	9462	9929	9987	4215
45°	4871	6339	7245	7379	7263	3750
55°	3079	4599	5394	5245	5118	2775
65°	1820	3439	4100	3864	3764	1808
75°	1004	2642	3142	2939	2894	1065
85°	415	1842	2141	2016	1995	396
90°	152	1106	1327	1294	1286	101
95°	155	768	1044	1076	1101	124
105°	149	559	649	721	732	157
115°	128	829	660	614	604	129
125°	108	747	744	660	636	97
135°	81	673	1046	846	766	65
145°	72	493	850	977	1101	45
155°	71	110	744	814	841	33
165°	71	96	131	401	494	20
175°	68	71	80	81	66	6
180°	62	62	62	62	62	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	9802.6	9802.6	9802.6	9802.6	9802.6	9802.6	9802.6	9802.6	9802.6	9802.6	9802.6
2.5°	9874.7	9858.2	9835.7	9864.2	9865.7	9859.7	9862.7	9891.3	9909.3	9942.3	9960.4
5°	9826.6	9820.6	9825.1	9886.7	9943.8	9972.4	9999.4	10089.6	10181.2	10274.4	10355.5
7.5°	9750.0	9762.0	9799.6	9924.3	10049.0	10110.6	10179.7	10349.5	10499.8	10632.0	10771.7
10°	9646.3	9667.4	9760.5	9952.9	10154.2	10250.4	10354.0	10562.9	10770.2	10949.0	11091.8
12.5°	9506.6	9544.2	9698.9	9963.4	10227.8	10355.5	10489.3	10731.2	10950.5	11156.4	11329.2
15°	9323.3	9399.9	9602.8	9940.8	10257.9	10400.6	10544.9	10813.8	11057.2	11285.6	11474.9
17.5°	9117.4	9224.1	9481.1	9870.2	10227.8	10375.1	10531.3	10818.3	11082.8	11324.7	11532.0
20°	8874.0	9003.3	9318.8	9754.5	10124.1	10280.4	10447.2	10749.2	11027.2	11279.6	11494.5
22.5°	8596.1	8752.3	9123.5	9583.2	9958.9	10119.6	10292.4	10608.0	10896.5	11148.9	11357.7
25°	8289.5	8466.8	8878.5	9350.3	9726.0	9903.3	10068.6	10388.6	10666.6	10931.0	11144.4
27.5°	7966.5	8140.8	8579.5	9060.3	9430.0	9610.3	9781.6	10095.6	10376.6	10624.5	10842.4
30°	7577.3	7777.2	8232.4	8702.7	9096.4	9267.7	9421.0	9726.0	10010.0	10242.9	10421.7
32.5°	7183.7	7388.0	7858.3	8334.6	8695.2	8844.0	9010.8	9296.2	9553.2	9783.1	9970.9
35°	6764.5	6983.8	7422.6	7870.3	8220.4	8387.2	8554.0	8829.0	9057.3	9275.2	9461.5
37.5°	6316.7	6515.0	6977.8	7427.1	7736.6	7907.9	8050.6	8297.1	8548.0	8752.3	8902.6
40°	5841.9	6041.7	6501.5	6929.7	7248.3	7401.5	7512.7	7775.7	8005.6	8223.4	8343.6
42.5°	5353.6	5594.0	6022.2	6420.4	6713.4	6890.7	6977.8	7255.8	7463.1	7661.5	7795.2
45°	4871.3	5087.6	5520.4	5912.5	6217.5	6339.2	6463.9	6708.9	6941.8	7110.0	7245.3
47.5°	4378.4	4608.3	5036.5	5422.7	5711.2	5867.4	6008.7	6231.1	6444.4	6608.2	6743.4
50°	3899.1	4172.6	4597.8	4973.4	5260.4	5386.6	5529.4	5778.8	5978.6	6137.9	6238.6
52.5°	3519.0	3745.8	4190.6	4545.2	4839.7	4979.4	5099.6	5376.1	5569.9	5699.2	5784.8
55°	3078.7	3350.7	3780.4	4145.5	4461.1	4599.3	4742.0	4973.4	5156.7	5313.0	5394.1
57.5°	2704.6	2984.1	3422.8	3802.9	4118.5	4264.2	4408.5	4636.9	4821.7	4949.4	5021.5
60°	2360.5	2682.0	3113.3	3491.9	3818.0	3974.2	4108.0	4321.3	4497.1	4630.8	4680.4
62.5°	2069.0	2381.5	2832.3	3221.5	3558.0	3693.3	3822.5	4050.9	4231.2	4336.3	4375.4
65°	1819.6	2130.6	2579.9	2976.5	3313.1	3439.3	3573.1	3801.4	3963.7	4073.4	4100.4
67.5°	1562.6	1903.7	2357.5	2764.7	3081.7	3216.9	3344.7	3571.5	3735.3	3828.5	3843.5
70°	1359.8	1700.9	2162.2	2578.4	2874.4	3014.1	3138.8	3359.7	3511.4	3604.6	3603.1
72.5°	1167.5	1516.1	1986.4	2380.0	2688.1	2821.8	2946.5	3167.4	3311.6	3373.2	3362.7
75°	1003.7	1341.8	1828.6	2202.7	2506.2	2641.5	2773.7	2972.0	3093.7	3149.3	3141.8
77.5°	838.4	1184.0	1673.8	2040.5	2336.5	2464.2	2588.9	2766.2	2892.4	2936.0	2910.4
80°	691.2	1042.8	1513.1	1873.7	2163.7	2270.3	2383.0	2560.3	2659.5	2704.6	2686.6
82.5°	551.4	907.5	1356.8	1693.4	1957.8	2069.0	2177.2	2325.9	2419.1	2447.6	2416.1
85°	414.7	764.8	1185.5	1496.5	1733.9	1842.1	1927.8	2069.0	2141.1	2163.7	2141.1
87.5°	288.5	622.1	1003.7	1272.7	1480.0	1570.2	1642.3	1765.5	1822.6	1852.6	1837.6
90°	151.8	414.7	712.2	906.0	1050.3	1105.9	1166.0	1250.1	1305.7	1332.8	1326.7
92.5°	147.2	314.0	558.9	734.7	870.0	933.1	1003.7	1110.4	1170.5	1212.6	1215.6
95°	154.8	259.9	423.7	555.9	697.2	767.8	827.9	910.5	975.2	1030.7	1044.3
97.5°	151.8	267.5	387.7	498.8	583.0	628.1	692.7	793.3	853.4	889.5	895.5
100°	151.8	282.5	407.2	473.3	558.9	584.5	610.0	664.1	749.8	797.9	821.9
102.5°	150.3	288.5	440.2	477.8	543.9	584.5	604.0	631.1	662.6	706.2	749.8
105°	148.8	293.0	467.3	522.9	534.9	558.9	598.0	637.1	646.1	647.6	649.1
107.5°	147.2	278.0	479.3	613.0	565.0	569.5	581.5	631.1	658.1	652.1	640.1
110°	142.7	240.4	479.3	610.0	617.5	602.5	599.5	620.6	652.1	665.6	652.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	136.7	204.3	471.8	613.0	752.8	673.1	640.1	632.6	644.6	659.6	668.6
115°	127.7	166.8	467.3	613.0	751.3	829.4	719.7	665.6	655.1	656.6	659.6
117.5°	123.2	142.7	477.8	611.5	715.2	818.9	895.5	719.7	683.7	668.6	661.1
120°	118.7	132.2	450.8	604.0	716.7	758.8	871.5	844.4	731.7	695.7	677.6
122.5°	112.7	127.7	405.7	592.0	709.2	757.3	794.8	999.2	812.9	736.2	706.2
125°	108.2	121.7	342.6	592.0	695.7	746.8	788.8	931.6	1048.8	805.4	743.8
127.5°	102.2	114.2	272.0	604.0	677.6	730.2	775.3	845.9	1035.3	987.2	823.4
130°	94.7	108.2	204.3	558.9	661.1	709.2	755.8	832.4	925.6	1096.9	1008.2
132.5°	88.7	100.7	136.7	497.3	650.6	689.7	733.2	812.9	876.0	999.2	1134.4
135°	81.1	93.2	108.2	423.7	664.1	673.1	710.7	791.8	856.5	906.0	1045.8
137.5°	78.1	90.2	103.7	341.1	617.5	689.7	692.7	764.8	833.9	888.0	930.1
140°	75.1	87.1	100.7	231.4	543.9	652.1	709.2	739.3	806.9	862.5	909.0
142.5°	72.1	84.1	96.2	150.3	458.3	580.0	679.2	721.2	776.8	833.9	880.5
145°	72.1	82.6	94.7	111.2	362.1	492.8	599.5	736.2	749.8	799.4	850.4
147.5°	70.6	81.1	93.2	102.2	238.9	381.6	504.9	682.2	746.8	770.8	812.9
150°	70.6	79.6	91.7	100.7	153.3	261.4	395.2	589.0	730.2	755.8	779.8
152.5°	70.6	78.1	91.7	99.2	106.7	159.3	272.0	464.3	629.6	749.8	769.3
155°	70.6	76.6	90.2	97.7	105.2	109.7	153.3	348.6	507.9	643.1	743.8
157.5°	70.6	76.6	88.7	96.2	102.2	106.7	108.2	190.8	374.1	507.9	622.1
160°	70.6	75.1	85.6	94.7	99.2	103.7	106.7	115.7	198.3	360.6	470.3
162.5°	70.6	73.6	82.6	91.7	97.7	99.2	102.2	106.7	112.7	172.8	250.9
165°	70.6	72.1	79.6	88.7	94.7	96.2	97.7	102.2	106.7	109.7	130.7
167.5°	69.1	72.1	76.6	82.6	90.2	93.2	94.7	97.7	100.7	103.7	106.7
170°	69.1	70.6	73.6	78.1	82.6	85.6	88.7	91.7	94.7	96.2	97.7
172.5°	67.6	69.1	70.6	73.6	76.6	78.1	79.6	82.6	87.1	90.2	91.7
175°	67.6	67.6	67.6	69.1	70.6	70.6	72.1	73.6	75.1	78.1	79.6
177.5°	66.1	67.6	66.1	66.1	66.1	66.1	66.1	66.1	67.6	67.6	67.6
180°	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	9802.6	9802.6	9802.6	9802.6	9802.6	9802.6	9802.6	9802.6	9802.6	9802.6
2.5°	9990.4	10005.4	9997.9	10044.5	10059.5	10046.0	10053.5	10068.6	10079.1	10085.1
5°	10429.2	10490.8	10532.8	10600.5	10617.0	10656.1	10675.6	10717.7	10747.7	10746.2
7.5°	10896.5	10979.1	11054.2	11120.3	11165.4	11188.0	11218.0	11275.1	11311.2	11317.2
10°	11245.0	11351.7	11443.4	11527.5	11584.6	11592.1	11667.3	11709.3	11748.4	11727.4
12.5°	11497.5	11610.2	11718.3	11835.5	11870.1	11906.2	11958.8	12021.9	12056.4	12051.9
15°	11650.7	11781.5	11906.2	12018.9	12063.9	12094.0	12164.6	12233.7	12263.8	12266.8
17.5°	11712.3	11852.1	11978.3	12100.0	12140.6	12175.1	12248.7	12313.4	12349.4	12355.4
20°	11676.3	11820.5	11951.2	12073.0	12110.5	12148.1	12221.7	12287.8	12326.9	12329.9
22.5°	11545.6	11688.3	11828.0	11940.7	11976.8	12018.9	12082.0	12148.1	12178.1	12179.6
25°	11320.2	11459.9	11584.6	11688.3	11725.9	11775.4	11837.1	11885.1	11919.7	11931.7
27.5°	10995.6	11129.4	11255.6	11339.7	11386.3	11426.9	11474.9	11547.1	11553.1	11559.1
30°	10579.4	10734.2	10849.9	10919.0	10949.0	11007.6	11040.7	11078.3	11129.4	11123.3
32.5°	10119.6	10263.9	10348.0	10457.7	10481.8	10511.8	10531.3	10577.9	10589.9	10595.9
35°	9602.8	9730.5	9793.6	9883.7	9928.8	9933.3	9957.4	9993.4	9993.4	9987.4
37.5°	9043.8	9177.5	9237.6	9273.7	9290.2	9311.3	9308.3	9327.8	9300.8	9318.8
40°	8496.9	8590.1	8606.6	8642.6	8659.2	8665.2	8653.2	8639.6	8606.6	8626.1
42.5°	7913.9	7980.0	8026.6	8010.1	8020.6	8008.6	7983.0	7942.5	7951.5	7957.5
45°	7339.9	7380.5	7379.0	7421.1	7379.0	7355.0	7329.4	7299.4	7285.8	7263.3
47.5°	6802.0	6820.1	6824.6	6802.0	6766.0	6784.0	6707.4	6686.3	6663.8	6665.3
50°	6282.1	6304.7	6297.2	6250.6	6220.5	6189.0	6143.9	6104.8	6080.8	6058.3
52.5°	5825.4	5817.9	5772.8	5744.2	5705.2	5688.6	5618.0	5600.0	5566.9	5553.4
55°	5415.2	5385.1	5338.5	5295.0	5245.4	5222.8	5179.3	5140.2	5108.7	5117.7
57.5°	5021.5	4986.9	4935.9	4871.3	4838.2	4814.2	4761.6	4740.5	4703.0	4704.5
60°	4671.4	4629.3	4566.2	4506.1	4474.6	4443.0	4404.0	4375.4	4351.4	4343.9
62.5°	4366.4	4318.3	4255.2	4193.6	4159.0	4133.5	4091.4	4059.9	4035.8	4034.3
65°	4080.9	4016.3	3942.7	3890.1	3864.5	3842.0	3810.5	3774.4	3757.9	3763.9
67.5°	3805.9	3745.8	3684.2	3628.6	3598.6	3585.1	3567.0	3541.5	3529.5	3534.0
70°	3558.0	3479.9	3433.3	3386.7	3365.7	3361.2	3334.1	3313.1	3307.1	3299.6
72.5°	3316.1	3253.0	3200.4	3159.9	3153.8	3140.3	3114.8	3108.8	3087.7	3083.2
75°	3090.7	3027.6	2982.6	2945.0	2939.0	2931.5	2913.4	2908.9	2889.4	2893.9
77.5°	2859.3	2808.3	2766.2	2742.1	2722.6	2715.1	2701.6	2691.1	2683.5	2680.5
80°	2617.4	2563.3	2525.8	2507.7	2497.2	2486.7	2479.2	2464.2	2456.7	2452.2
82.5°	2356.0	2313.9	2280.9	2268.8	2261.3	2267.3	2244.8	2243.3	2238.8	2231.3
85°	2103.6	2058.5	2026.9	2020.9	2016.4	2008.9	2005.9	1998.4	1995.4	1995.4
87.5°	1798.5	1759.5	1741.4	1752.0	1735.4	1746.0	1744.5	1735.4	1729.4	1750.5
90°	1305.7	1289.2	1280.2	1289.2	1293.7	1290.7	1289.2	1278.7	1286.2	1286.2
92.5°	1209.5	1197.5	1199.0	1194.5	1203.5	1205.0	1209.5	1205.0	1211.1	1209.5
95°	1045.8	1048.8	1057.8	1066.8	1075.8	1075.8	1086.3	1092.4	1093.9	1101.4
97.5°	892.5	888.0	909.0	919.6	915.0	922.6	928.6	940.6	943.6	934.6
100°	821.9	811.4	808.4	805.4	805.4	800.9	800.9	805.4	808.4	800.9
102.5°	755.8	761.8	761.8	758.8	758.8	760.3	761.8	764.8	767.8	764.8
105°	676.1	704.7	713.7	719.7	721.2	722.7	727.2	733.2	733.2	731.7
107.5°	631.1	614.5	637.1	661.1	670.1	677.6	691.2	698.7	701.7	700.2
110°	635.6	616.0	596.5	605.5	601.0	590.5	605.5	623.6	635.6	640.1



TEST NUMBER: P236413

CATALOG NUMBER: SKB4-LD5-36-W-UNV-L840-CD4-U

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	650.6	629.6	617.5	605.5	599.5	595.0	592.0	595.0	593.5	587.5
115°	661.1	647.6	629.6	617.5	614.5	613.0	613.0	610.0	607.0	604.0
117.5°	656.6	650.6	646.1	637.1	635.6	632.6	626.6	622.1	616.0	613.0
120°	662.6	652.1	644.6	641.6	643.1	643.1	640.1	638.6	632.6	629.6
122.5°	683.7	664.1	653.6	649.1	646.1	644.6	641.6	638.6	632.6	629.6
125°	715.2	691.2	674.6	662.6	659.6	656.6	650.6	644.6	638.6	635.6
127.5°	760.3	728.7	709.2	692.7	686.7	679.2	670.1	658.1	652.1	649.1
130°	836.9	782.8	752.8	730.2	719.7	713.7	701.7	689.7	679.2	674.6
132.5°	1065.3	876.0	818.9	781.3	773.8	760.3	742.3	728.7	716.7	712.2
135°	1154.0	1163.0	930.1	868.5	845.9	823.4	802.4	782.8	769.3	766.3
137.5°	1062.3	1155.5	1211.1	1125.4	1041.3	952.6	904.5	874.5	853.4	841.4
140°	948.1	1035.3	1137.4	1188.5	1212.6	1226.1	1217.1	1167.5	1104.4	1095.4
142.5°	922.6	952.6	981.2	1086.3	1120.9	1147.9	1176.5	1194.5	1205.0	1205.0
145°	891.0	925.6	948.1	967.6	976.7	984.2	1047.3	1089.3	1101.4	1101.4
147.5°	858.0	888.0	916.6	937.6	948.1	957.1	964.6	970.6	969.1	967.6
150°	815.9	847.4	876.0	900.0	910.5	916.6	930.1	936.1	934.6	931.6
152.5°	778.3	806.9	833.9	853.4	865.5	874.5	885.0	894.0	895.5	894.0
155°	781.3	775.3	791.8	811.4	814.4	823.4	835.4	844.4	841.4	841.4
157.5°	709.2	766.3	788.8	779.8	778.3	781.3	785.8	793.3	793.3	788.8
160°	560.4	640.1	698.7	752.8	761.8	772.3	782.8	784.3	778.3	770.8
162.5°	384.7	447.8	527.4	586.0	605.5	626.6	655.1	676.1	683.7	674.6
165°	172.8	220.9	324.5	371.1	401.2	417.7	443.3	459.8	480.8	494.3
167.5°	108.2	112.7	132.2	145.7	160.8	175.8	186.3	199.8	211.9	234.4
170°	99.2	100.7	102.2	102.2	102.2	100.7	99.2	96.2	94.7	90.2
172.5°	93.2	93.2	93.2	91.7	93.2	91.7	90.2	87.1	81.1	76.6
175°	81.1	82.6	81.1	82.6	81.1	81.1	79.6	75.1	69.1	66.1
177.5°	67.6	67.6	67.6	66.1	64.6	63.1	61.6	57.1	52.6	48.1
180°	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6

(END OF REPORT)