

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: P236411

Luminaire Tested: **SKB4-LD5-30-W-UNV-L850-CD4-U**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P236411
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-LD5-30-W-UNV-L850-CD4-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

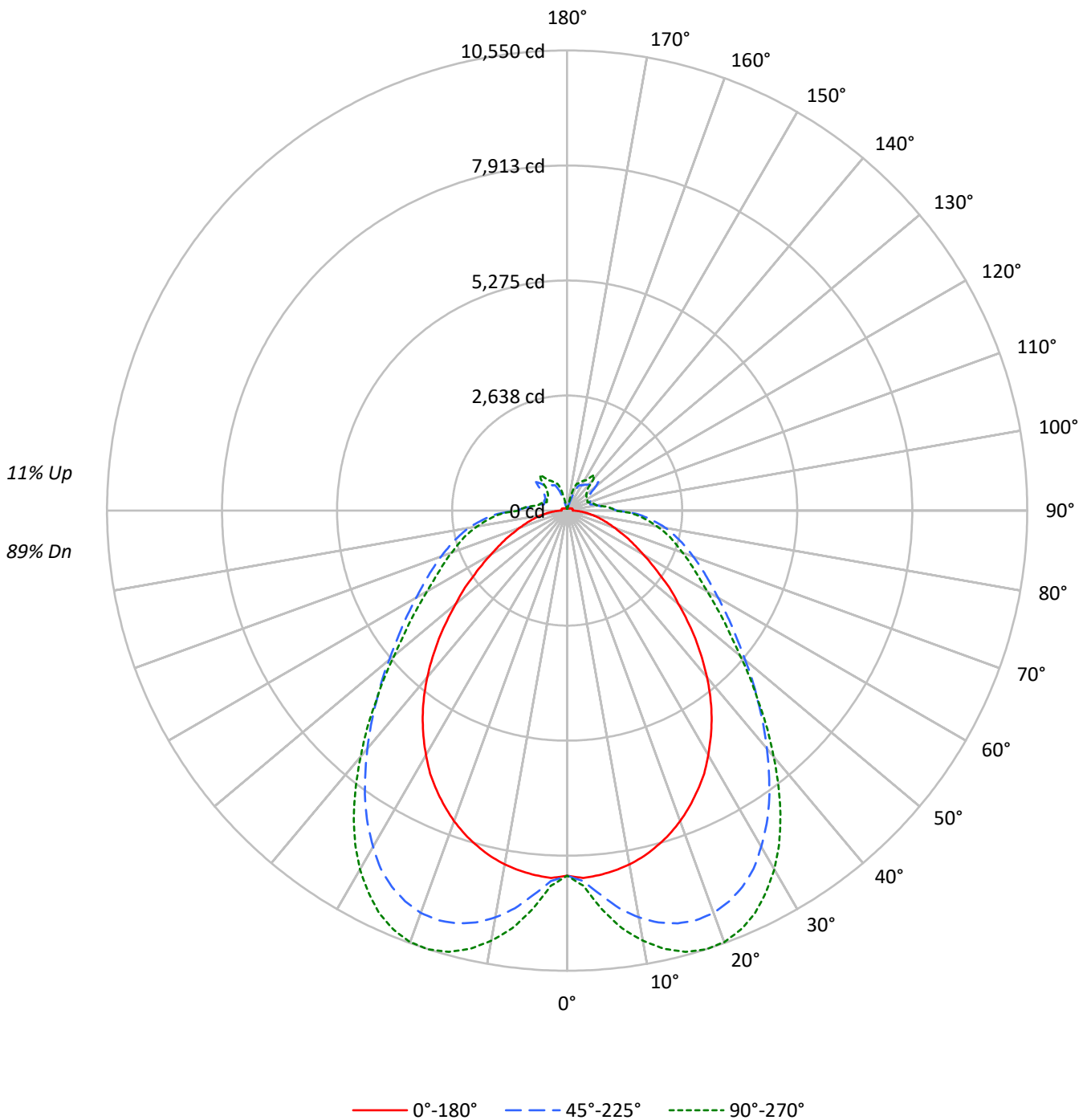
Lumens per Lamp: N/A
Luminaire Lumens: 31520.0 lumens
Efficiency: N/A
Efficacy: 121.0 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.49 / 1.44
Luminous Opening: Rectangular w/ Sides (W: 1.88' x L: 4' x H: 0.21')
CIE Type: Semi-Direct

Input Watts (W): 260.5
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	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°	12013	12013	12013
5°	12033	12612	13092
10°	11894	13527	14313
15°	11666	14122	15113
20°	11357	14386	15455
25°	10943	14300	15339
30°	10409	13826	14791
35°	9764	13097	13863
40°	8954	12169	12623
45°	8024	11258	11329
50°	6999	10456	10199
55°	6122	9894	9437
60°	5307	9561	8928
65°	4746	9531	8814
70°	4262	9802	9057
75°	3979	10398	9686
80°	3766	11460	10616
85°	3655	12983	12360



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	856.1	2.7
10°-20°	2694.2	8.5
20°-30°	4205.5	13.3
30°-40°	4818.0	15.3
40°-50°	4479.5	14.2
50°-60°	3735.5	11.9
60°-70°	3045.0	9.7
70°-80°	2438.7	7.7
80°-90°	1675.2	5.3
90°-100°	836.0	2.7
100°-110°	565.2	1.8
110°-120°	507.8	1.6
120°-130°	501.0	1.6
130°-140°	490.6	1.6
140°-150°	388.8	1.2
150°-160°	214.3	0.7
160°-170°	62.0	0.2
170°-180°	6.6	0.0
0°-30°	7755.7	24.6
0°-40°	12573.7	39.9
0°-60°	20788.8	66.0
0°-90°	27947.6	88.7
90°-120°	1909.0	6.1
90°-150°	3289.5	10.4
90°-180°	3572.0	11.3
0°-180°	31520.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8370	8370	8370	8370	8370	
5°	8391	8515	8842	9066	9176	796
15°	7961	8881	9798	10301	10474	2242
25°	7078	8456	9516	10012	10188	3254
35°	5776	7162	8079	8478	8528	3599
45°	4159	5413	6187	6301	6202	3202
55°	2629	3927	4606	4479	4370	2369
65°	1554	2937	3501	3300	3214	1544
75°	857	2256	2683	2510	2471	909
85°	354	1573	1828	1722	1704	338
90°	130	944	1133	1105	1098	86
95°	132	656	892	919	940	106
105°	127	477	554	616	625	134
115°	109	708	563	525	516	110
125°	92	638	635	563	543	82
135°	69	575	893	722	654	55
145°	62	421	726	834	940	39
155°	60	94	635	695	718	28
165°	60	82	112	343	422	17
175°	58	60	68	69	56	6
180°	53	53	53	53	53	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	8370.2	8370.2	8370.2	8370.2	8370.2	8370.2	8370.2	8370.2	8370.2	8370.2	8370.2
2.5°	8431.8	8417.7	8398.4	8422.8	8424.1	8419.0	8421.5	8445.9	8461.3	8489.5	8504.9
5°	8390.7	8385.6	8389.5	8442.1	8490.8	8515.2	8538.3	8615.3	8693.5	8773.1	8842.4
7.5°	8325.3	8335.6	8367.6	8474.1	8580.6	8633.2	8692.2	8837.2	8965.5	9078.4	9197.7
10°	8236.8	8254.7	8334.3	8498.5	8670.4	8752.5	8841.1	9019.4	9196.5	9349.1	9471.0
12.5°	8117.5	8149.5	8281.7	8507.5	8733.3	8842.4	8956.5	9163.1	9350.4	9526.2	9673.7
15°	7960.9	8026.4	8199.6	8488.2	8759.0	8880.8	9004.0	9233.7	9441.5	9636.5	9798.2
17.5°	7785.2	7876.3	8095.7	8427.9	8733.3	8859.0	8992.5	9237.5	9463.3	9669.9	9846.9
20°	7577.3	7687.7	7957.1	8329.2	8644.8	8778.2	8920.6	9178.5	9415.8	9631.4	9814.9
22.5°	7340.0	7473.4	7790.3	8182.9	8503.6	8640.9	8788.5	9057.9	9304.2	9519.8	9698.1
25°	7078.2	7229.6	7581.2	7984.0	8304.8	8456.2	8597.3	8870.6	9107.9	9333.7	9515.9
27.5°	6802.4	6951.2	7325.9	7736.4	8052.0	8206.0	8352.3	8620.4	8860.3	9072.0	9258.0
30°	6470.1	6640.7	7029.5	7431.1	7767.2	7913.5	8044.3	8304.8	8547.3	8746.1	8898.8
32.5°	6134.0	6308.5	6710.0	7116.7	7424.7	7551.7	7694.1	7937.8	8157.2	8353.5	8513.9
35°	5776.0	5963.3	6338.0	6720.3	7019.2	7161.6	7304.1	7538.8	7733.9	7919.9	8079.0
37.5°	5393.7	5563.0	5958.2	6341.8	6606.1	6752.4	6874.3	7084.7	7298.9	7473.4	7601.7
40°	4988.3	5158.9	5551.5	5917.1	6189.1	6320.0	6414.9	6639.5	6835.8	7021.8	7124.4
42.5°	4571.3	4776.6	5142.2	5482.2	5732.4	5883.8	5958.2	6195.5	6372.6	6542.0	6656.1
45°	4159.4	4344.2	4713.7	5048.6	5309.0	5412.9	5519.4	5728.5	5927.4	6071.1	6186.6
47.5°	3738.6	3934.9	4300.6	4630.3	4876.6	5010.1	5130.7	5320.6	5502.7	5642.6	5758.1
50°	3329.4	3562.9	3925.9	4246.7	4491.7	4599.5	4721.4	4934.4	5105.0	5241.0	5327.0
52.5°	3004.8	3198.5	3578.3	3881.0	4132.5	4251.8	4354.5	4590.5	4756.0	4866.4	4939.5
55°	2628.8	2861.1	3228.0	3539.8	3809.2	3927.2	4049.1	4246.7	4403.2	4536.6	4605.9
57.5°	2309.4	2548.0	2922.6	3247.2	3516.7	3641.1	3764.3	3959.3	4117.1	4226.2	4287.7
60°	2015.6	2290.1	2658.4	2981.7	3260.1	3393.5	3507.7	3689.9	3840.0	3954.2	3996.5
62.5°	1766.7	2033.5	2418.4	2750.7	3038.1	3153.6	3263.9	3458.9	3612.9	3702.7	3736.1
65°	1553.7	1819.3	2202.9	2541.6	2829.0	2936.8	3050.9	3246.0	3384.5	3478.2	3501.3
67.5°	1334.3	1625.5	2013.0	2360.7	2631.4	2746.9	2855.9	3049.7	3189.5	3269.1	3281.9
70°	1161.1	1452.3	1846.2	2201.6	2454.4	2573.7	2680.2	2868.8	2998.3	3077.9	3076.6
72.5°	996.9	1294.5	1696.1	2032.3	2295.3	2409.5	2515.9	2704.5	2827.7	2880.3	2871.3
75°	857.0	1145.7	1561.4	1880.9	2140.0	2255.5	2368.4	2537.8	2641.7	2689.1	2682.7
77.5°	715.9	1011.0	1429.2	1742.3	1995.0	2104.1	2210.6	2362.0	2469.8	2507.0	2485.1
80°	590.2	890.4	1292.0	1599.9	1847.5	1938.6	2034.8	2186.2	2270.9	2309.4	2294.0
82.5°	470.9	774.9	1158.5	1445.9	1671.7	1766.7	1859.0	1986.1	2065.6	2090.0	2063.0
85°	354.1	653.0	1012.3	1277.9	1480.6	1572.9	1646.1	1766.7	1828.3	1847.5	1828.3
87.5°	246.3	531.2	857.0	1086.7	1263.7	1340.7	1402.3	1507.5	1556.3	1581.9	1569.1
90°	129.6	354.1	608.1	773.6	896.8	944.3	995.6	1067.4	1114.9	1138.0	1132.9
92.5°	125.7	268.1	477.3	627.4	742.9	796.7	857.0	948.1	999.4	1035.4	1037.9
95°	132.1	222.0	361.8	474.7	595.3	655.6	706.9	777.5	832.7	880.1	891.7
97.5°	129.6	228.4	331.0	426.0	497.8	536.3	591.5	677.4	728.7	759.5	764.7
100°	129.6	241.2	347.7	404.1	477.3	499.1	520.9	567.1	640.2	681.3	701.8
102.5°	128.3	246.3	375.9	408.0	464.4	499.1	515.8	538.9	565.8	603.0	640.2
105°	127.0	250.2	399.0	446.5	456.7	477.3	510.6	544.0	551.7	553.0	554.3
107.5°	125.7	237.4	409.3	523.5	482.4	486.3	496.5	538.9	561.9	556.8	546.6
110°	121.9	205.3	409.3	520.9	527.3	514.5	511.9	529.9	556.8	568.4	556.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	116.8	174.5	402.9	523.5	642.8	574.8	546.6	540.1	550.4	563.2	570.9
115°	109.1	142.4	399.0	523.5	641.5	708.2	614.6	568.4	559.4	560.7	563.2
117.5°	105.2	121.9	408.0	522.2	610.7	699.2	764.7	614.6	583.8	570.9	564.5
120°	101.4	112.9	384.9	515.8	612.0	647.9	744.1	721.0	624.8	594.0	578.6
122.5°	96.2	109.1	346.4	505.5	605.6	646.6	678.7	853.2	694.1	628.7	603.0
125°	92.4	103.9	292.5	505.5	594.0	637.6	673.6	795.5	895.5	687.7	635.1
127.5°	87.2	97.5	232.2	515.8	578.6	623.5	662.0	722.3	884.0	842.9	703.1
130°	80.8	92.4	174.5	477.3	564.5	605.6	645.3	710.8	790.3	936.6	860.9
132.5°	75.7	86.0	116.8	424.7	555.5	588.9	626.1	694.1	748.0	853.2	968.7
135°	69.3	79.5	92.4	361.8	567.1	574.8	606.9	676.1	731.3	773.6	893.0
137.5°	66.7	77.0	88.5	291.2	527.3	588.9	591.5	653.0	712.1	758.2	794.2
140°	64.1	74.4	86.0	197.6	464.4	556.8	605.6	631.2	689.0	736.4	776.2
142.5°	61.6	71.8	82.1	128.3	391.3	495.2	579.9	615.8	663.3	712.1	751.8
145°	61.6	70.6	80.8	94.9	309.2	420.8	511.9	628.7	640.2	682.5	726.2
147.5°	60.3	69.3	79.5	87.2	204.0	325.9	431.1	582.5	637.6	658.2	694.1
150°	60.3	68.0	78.3	86.0	130.9	223.2	337.4	502.9	623.5	645.3	665.9
152.5°	60.3	66.7	78.3	84.7	91.1	136.0	232.2	396.4	537.6	640.2	656.9
155°	60.3	65.4	77.0	83.4	89.8	93.7	130.9	297.7	433.6	549.1	635.1
157.5°	60.3	65.4	75.7	82.1	87.2	91.1	92.4	162.9	319.5	433.6	531.2
160°	60.3	64.1	73.1	80.8	84.7	88.5	91.1	98.8	169.4	307.9	401.6
162.5°	60.3	62.9	70.6	78.3	83.4	84.7	87.2	91.1	96.2	147.5	214.3
165°	60.3	61.6	68.0	75.7	80.8	82.1	83.4	87.2	91.1	93.7	111.6
167.5°	59.0	61.6	65.4	70.6	77.0	79.5	80.8	83.4	86.0	88.5	91.1
170°	59.0	60.3	62.9	66.7	70.6	73.1	75.7	78.3	80.8	82.1	83.4
172.5°	57.7	59.0	60.3	62.9	65.4	66.7	68.0	70.6	74.4	77.0	78.3
175°	57.7	57.7	57.7	59.0	60.3	60.3	61.6	62.9	64.1	66.7	68.0
177.5°	56.5	57.7	56.5	56.5	56.5	56.5	56.5	56.5	57.7	57.7	57.7
180°	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	8370.2	8370.2	8370.2	8370.2	8370.2	8370.2	8370.2	8370.2	8370.2	8370.2
2.5°	8530.6	8543.4	8537.0	8576.8	8589.6	8578.1	8584.5	8597.3	8606.3	8611.4
5°	8905.2	8957.8	8993.7	9051.5	9065.6	9099.0	9115.6	9151.6	9177.2	9175.9
7.5°	9304.2	9374.8	9438.9	9495.4	9533.9	9553.1	9578.8	9627.5	9658.3	9663.5
10°	9601.9	9693.0	9771.2	9843.1	9891.8	9898.3	9962.4	9998.3	10031.7	10013.7
12.5°	9817.4	9913.6	10006.0	10106.1	10135.6	10166.4	10211.3	10265.2	10294.7	10290.8
15°	9948.3	10059.9	10166.4	10262.6	10301.1	10326.8	10387.1	10446.1	10471.7	10474.3
17.5°	10000.9	10120.2	10228.0	10331.9	10366.5	10396.1	10458.9	10514.1	10544.9	10550.0
20°	9970.1	10093.3	10204.9	10308.8	10340.9	10373.0	10435.8	10492.3	10525.6	10528.2
22.5°	9858.5	9980.4	10099.7	10195.9	10226.7	10262.6	10316.5	10373.0	10398.6	10399.9
25°	9666.0	9785.4	9891.8	9980.4	10012.4	10054.8	10107.4	10148.4	10177.9	10188.2
27.5°	9388.9	9503.1	9610.9	9682.7	9722.5	9757.1	9798.2	9859.8	9864.9	9870.0
30°	9033.5	9165.7	9264.5	9323.5	9349.1	9399.2	9427.4	9459.5	9503.1	9498.0
32.5°	8640.9	8764.1	8835.9	8929.6	8950.1	8975.8	8992.5	9032.2	9042.5	9047.6
35°	8199.6	8308.6	8362.5	8439.5	8478.0	8481.8	8502.4	8533.2	8533.2	8528.0
37.5°	7722.3	7836.5	7887.8	7918.6	7932.7	7950.7	7948.1	7964.8	7941.7	7957.1
40°	7255.3	7334.8	7349.0	7379.7	7393.9	7399.0	7388.7	7377.2	7349.0	7365.6
42.5°	6757.5	6813.9	6853.7	6839.6	6848.6	6838.3	6816.5	6781.9	6789.6	6794.7
45°	6267.4	6302.0	6300.8	6336.7	6300.8	6280.2	6258.4	6232.8	6221.2	6202.0
47.5°	5808.1	5823.5	5827.3	5808.1	5777.3	5792.7	5727.3	5709.3	5690.1	5691.3
50°	5364.2	5383.4	5377.0	5337.2	5311.6	5284.6	5246.1	5212.8	5192.3	5173.0
52.5°	4974.1	4967.7	4929.2	4904.9	4871.5	4857.4	4797.1	4781.7	4753.5	4741.9
55°	4623.9	4598.2	4558.5	4521.3	4478.9	4459.7	4422.5	4389.1	4362.2	4369.9
57.5°	4287.7	4258.2	4214.6	4159.4	4131.2	4110.7	4065.8	4047.8	4015.8	4017.0
60°	3988.8	3952.9	3899.0	3847.7	3820.7	3793.8	3760.4	3736.1	3715.5	3709.1
62.5°	3728.4	3687.3	3633.4	3580.8	3551.3	3529.5	3493.6	3466.6	3446.1	3444.8
65°	3484.6	3429.4	3366.6	3321.7	3299.8	3280.6	3253.7	3222.9	3208.8	3213.9
67.5°	3249.8	3198.5	3145.9	3098.4	3072.8	3061.2	3045.8	3024.0	3013.7	3017.6
70°	3038.1	2971.4	2931.6	2891.9	2873.9	2870.0	2847.0	2829.0	2823.9	2817.4
72.5°	2831.6	2777.7	2732.8	2698.1	2693.0	2681.4	2659.6	2654.5	2636.5	2632.7
75°	2639.1	2585.2	2546.7	2514.7	2509.5	2503.1	2487.7	2483.9	2467.2	2471.0
77.5°	2441.5	2397.9	2362.0	2341.5	2324.8	2318.4	2306.8	2297.8	2291.4	2288.9
80°	2235.0	2188.8	2156.7	2141.3	2132.3	2123.3	2116.9	2104.1	2097.7	2093.8
82.5°	2011.7	1975.8	1947.6	1937.3	1930.9	1936.0	1916.8	1915.5	1911.7	1905.2
85°	1796.2	1757.7	1730.8	1725.6	1721.8	1715.4	1712.8	1706.4	1703.8	1703.8
87.5°	1535.7	1502.4	1487.0	1496.0	1481.9	1490.8	1489.5	1481.9	1476.7	1494.7
90°	1114.9	1100.8	1093.1	1100.8	1104.7	1102.1	1100.8	1091.8	1098.2	1098.2
92.5°	1032.8	1022.5	1023.8	1020.0	1027.7	1029.0	1032.8	1029.0	1034.1	1032.8
95°	893.0	895.5	903.2	910.9	918.6	918.6	927.6	932.7	934.0	940.4
97.5°	762.1	758.2	776.2	785.2	781.3	787.8	792.9	803.2	805.7	798.0
100°	701.8	692.8	690.2	687.7	687.7	683.8	683.8	687.7	690.2	683.8
102.5°	645.3	650.5	650.5	647.9	647.9	649.2	650.5	653.0	655.6	653.0
105°	577.3	601.7	609.4	614.6	615.8	617.1	621.0	626.1	626.1	624.8
107.5°	538.9	524.7	544.0	564.5	572.2	578.6	590.2	596.6	599.2	597.9
110°	542.7	526.0	509.3	517.0	513.2	504.2	517.0	532.4	542.7	546.6



TEST NUMBER: P236411

CATALOG NUMBER: SKB4-LD5-30-W-UNV-L850-CD4-U

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	555.5	537.6	527.3	517.0	511.9	508.1	505.5	508.1	506.8	501.6
115°	564.5	553.0	537.6	527.3	524.7	523.5	523.5	520.9	518.3	515.8
117.5°	560.7	555.5	551.7	544.0	542.7	540.1	535.0	531.2	526.0	523.5
120°	565.8	556.8	550.4	547.8	549.1	549.1	546.6	545.3	540.1	537.6
122.5°	583.8	567.1	558.1	554.3	551.7	550.4	547.8	545.3	540.1	537.6
125°	610.7	590.2	576.1	565.8	563.2	560.7	555.5	550.4	545.3	542.7
127.5°	649.2	622.2	605.6	591.5	586.3	579.9	572.2	561.9	556.8	554.3
130°	714.6	668.4	642.8	623.5	614.6	609.4	599.2	588.9	579.9	576.1
132.5°	909.6	748.0	699.2	667.2	660.7	649.2	633.8	622.2	612.0	608.1
135°	985.3	993.0	794.2	741.6	722.3	703.1	685.1	668.4	656.9	654.3
137.5°	907.1	986.6	1034.1	961.0	889.1	813.4	772.4	746.7	728.7	718.5
140°	809.6	884.0	971.2	1014.8	1035.4	1046.9	1039.2	996.9	943.0	935.3
142.5°	787.8	813.4	837.8	927.6	957.1	980.2	1004.6	1020.0	1029.0	1029.0
145°	760.8	790.3	809.6	826.2	833.9	840.4	894.2	930.2	940.4	940.4
147.5°	732.6	758.2	782.6	800.6	809.6	817.3	823.7	828.8	827.5	826.2
150°	696.7	723.6	748.0	768.5	777.5	782.6	794.2	799.3	798.0	795.5
152.5°	664.6	689.0	712.1	728.7	739.0	746.7	755.7	763.4	764.7	763.4
155°	667.2	662.0	676.1	692.8	695.4	703.1	713.3	721.0	718.5	718.5
157.5°	605.6	654.3	673.6	665.9	664.6	667.2	671.0	677.4	677.4	673.6
160°	478.6	546.6	596.6	642.8	650.5	659.5	668.4	669.7	664.6	658.2
162.5°	328.4	382.3	450.3	500.4	517.0	535.0	559.4	577.3	583.8	576.1
165°	147.5	188.6	277.1	316.9	342.6	356.7	378.5	392.6	410.6	422.1
167.5°	92.4	96.2	112.9	124.4	137.3	150.1	159.1	170.6	180.9	200.1
170°	84.7	86.0	87.2	87.2	87.2	86.0	84.7	82.1	80.8	77.0
172.5°	79.5	79.5	79.5	78.3	79.5	78.3	77.0	74.4	69.3	65.4
175°	69.3	70.6	69.3	70.6	69.3	69.3	68.0	64.1	59.0	56.5
177.5°	57.7	57.7	57.7	56.5	55.2	53.9	52.6	48.8	44.9	41.1
180°	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6

(END OF REPORT)