

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: P232524

Luminaire Tested: **8SKB1-LD5-16-N-UNV-L850-CD2-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P232524  
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-N-UNV-L850-CD2-U  
Description: METALUX SKYBAR 8' WAVESTREAM STRIP  
WITH NARROW LENS  
Light Source: (476) 5000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17765.0 lumens  
Efficiency: N/A  
Efficacy: 136.1 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

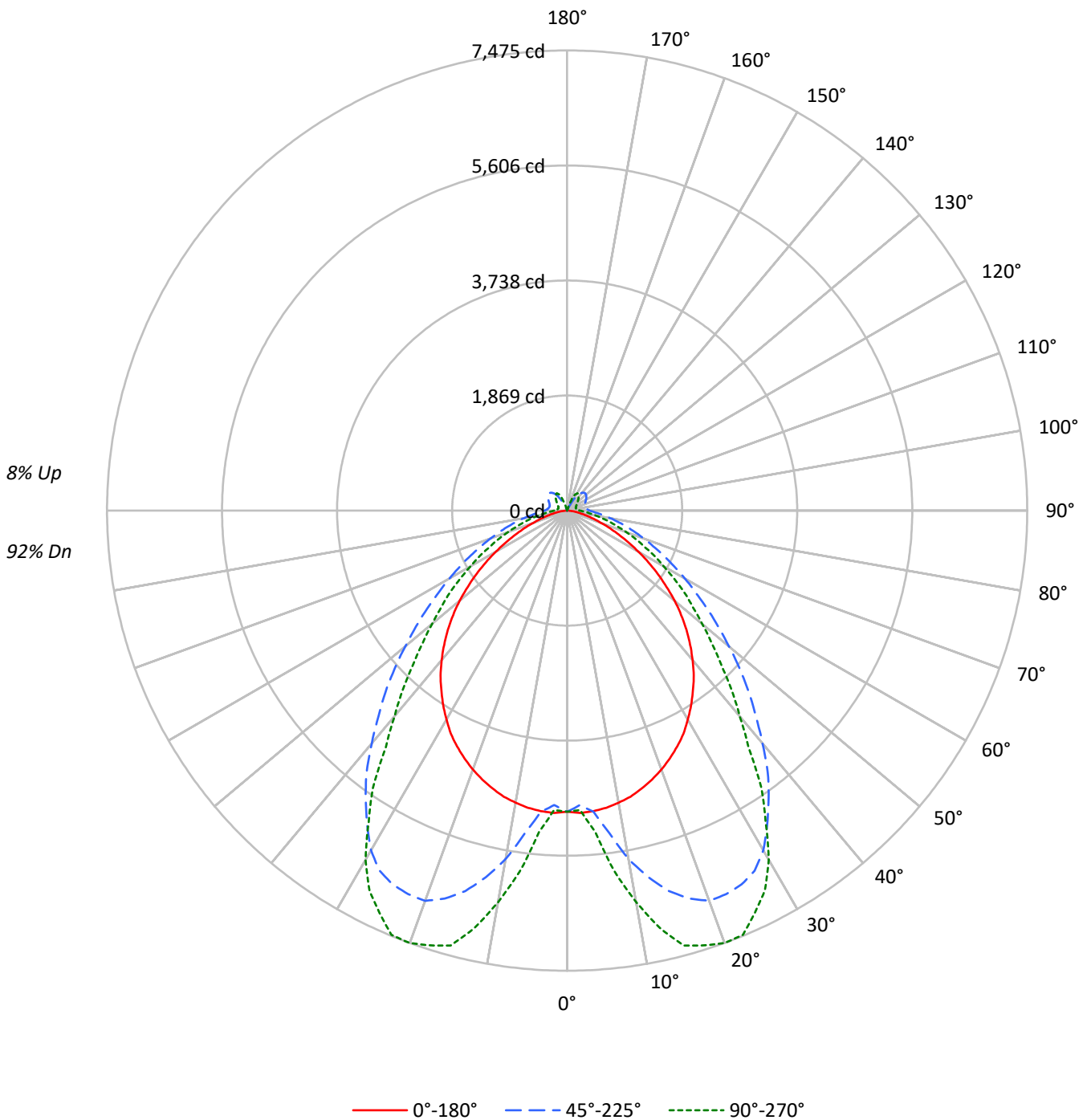
Input Watts (W): 130.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	26333	26333	26333
5°	26388	24687	25691
10°	26164	27311	29268
15°	25793	29028	31047
20°	25310	29498	30050
25°	24688	28495	27733
30°	23850	26561	24326
35°	22829	23495	19914
40°	21609	20254	15487
45°	20124	17181	12425
50°	18292	14267	10027
55°	16072	11741	8208
60°	13532	9617	6473
65°	10884	7801	5018
70°	8374	6234	3825
75°	6236	4924	2768
80°	4376	3792	1963
85°	2615	2860	1344



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	500.9	2.8
10°-20°	1743.0	9.8
20°-30°	2869.6	16.2
30°-40°	3223.8	18.1
40°-50°	2868.9	16.1
50°-60°	2218.6	12.5
60°-70°	1506.6	8.5
70°-80°	899.1	5.1
80°-90°	482.3	2.7
90°-100°	317.4	1.8
100°-110°	269.2	1.5
110°-120°	249.1	1.4
120°-130°	232.0	1.3
130°-140°	196.7	1.1
140°-150°	134.4	0.8
150°-160°	51.9	0.3
160°-170°	1.6	0.0
170°-180°	0.0	0.0
0°-30°	5113.5	28.8
0°-40°	8337.3	46.9
0°-60°	13424.8	75.6
0°-90°	16312.7	91.8
90°-120°	835.6	4.7
90°-150°	1398.8	7.9
90°-180°	1452.0	8.2
0°-180°	17765.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4893	4893	4893	4893	4893	
5°	4900	4833	4910	5171	5241	465
15°	4674	5250	6397	7196	7314	1318
25°	4228	5430	6702	7228	7211	1945
35°	3563	4890	5706	5654	5507	2226
45°	2740	3779	4178	3820	3537	2108
55°	1802	2575	2772	2515	2332	1610
65°	922	1600	1730	1560	1380	929
75°	341	965	989	852	713	373
85°	60	607	497	389	312	74
90°	5	516	362	264	204	5
95°	2	499	317	223	170	2
105°	2	454	293	190	146	2
115°	2	418	326	206	161	2
125°	2	343	379	252	197	2
135°	2	132	406	324	254	2
145°	2	12	314	367	317	2
155°	2	7	70	242	269	1
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P232524

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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	4892.8	4892.8	4892.8	4892.8	4892.8	4892.8	4892.8	4892.8	4892.8	4892.8	4892.8
2.5°	4916.8	4897.6	4864.0	4861.6	4840.0	4830.4	4832.8	4825.6	4818.4	4806.4	4787.2
5°	4900.0	4864.0	4808.8	4808.8	4820.8	4832.8	4861.6	4888.0	4895.2	4912.0	4909.6
7.5°	4868.8	4813.6	4760.9	4804.0	4847.2	4864.0	4897.6	4945.6	5020.0	5156.8	5291.2
10°	4818.4	4744.1	4727.3	4796.8	4854.4	4904.8	4981.6	5204.8	5411.2	5615.1	5747.1
12.5°	4760.9	4669.7	4693.7	4782.4	4916.8	5012.8	5209.6	5504.7	5667.9	5905.5	6099.8
15°	4674.5	4588.1	4631.3	4763.3	5044.0	5250.4	5360.8	5720.7	5982.3	6179.0	6397.4
17.5°	4580.9	4504.1	4564.1	4796.8	5178.4	5377.6	5555.1	5859.9	6111.8	6402.2	6608.6
20°	4477.7	4410.5	4487.3	4840.0	5243.2	5447.1	5643.9	5934.3	6267.8	6567.8	6745.3
22.5°	4357.7	4297.7	4415.3	4859.2	5267.2	5471.1	5663.1	6001.5	6347.0	6594.2	6745.3
25°	4228.1	4168.1	4328.9	4820.8	5243.2	5430.3	5636.7	6037.5	6320.6	6515.0	6702.1
27.5°	4089.0	4021.8	4264.1	4741.7	5147.2	5358.4	5591.1	5967.9	6191.0	6407.0	6596.6
30°	3918.6	3858.6	4151.3	4626.5	5012.8	5262.4	5461.5	5799.9	6013.5	6227.0	6373.4
32.5°	3748.2	3690.6	4014.6	4463.3	4859.2	5094.4	5286.4	5550.3	5792.7	5958.3	6049.5
35°	3563.4	3498.7	3856.2	4264.1	4686.5	4890.4	5051.2	5291.2	5495.1	5617.5	5706.3
37.5°	3378.7	3309.1	3654.6	4055.4	4458.5	4645.7	4780.0	5022.4	5178.4	5279.2	5353.6
40°	3169.9	3097.9	3445.9	3820.2	4220.9	4352.9	4492.1	4708.1	4823.2	4904.8	4940.8
42.5°	2958.7	2886.7	3220.3	3573.0	3930.6	4060.2	4204.1	4374.5	4487.3	4535.3	4535.3
45°	2740.4	2670.8	2987.5	3328.3	3630.6	3779.4	3906.6	4043.4	4137.0	4175.3	4177.7
47.5°	2512.4	2454.8	2757.2	3066.7	3349.9	3479.5	3577.8	3709.8	3791.4	3801.0	3798.6
50°	2279.6	2229.3	2500.4	2805.2	3057.1	3172.3	3258.7	3381.1	3445.9	3443.5	3431.5
52.5°	2034.9	2003.7	2255.6	2534.0	2762.0	2865.2	2941.9	3049.9	3102.7	3102.7	3093.1
55°	1802.1	1782.9	2001.3	2270.0	2483.6	2574.8	2646.8	2742.8	2786.0	2786.0	2771.6
57.5°	1567.0	1564.6	1768.5	2008.5	2212.5	2294.0	2370.8	2454.8	2493.2	2493.2	2469.2
60°	1336.6	1348.6	1550.2	1770.9	1958.1	2037.3	2104.5	2186.1	2210.1	2214.9	2210.1
62.5°	1123.0	1154.2	1346.2	1547.8	1734.9	1802.1	1862.1	1941.3	1960.5	1967.7	1955.7
65°	921.5	969.4	1163.8	1355.8	1531.0	1600.5	1653.3	1708.5	1725.3	1732.5	1730.1
67.5°	755.9	806.3	1000.6	1190.2	1351.0	1406.2	1459.0	1507.0	1509.4	1521.4	1511.8
70°	585.5	662.3	856.7	1036.6	1187.8	1238.2	1281.4	1315.0	1322.2	1324.6	1322.2
72.5°	451.1	542.3	727.1	904.7	1041.4	1089.4	1123.0	1149.4	1149.4	1151.8	1144.6
75°	340.7	451.1	631.1	794.3	916.7	964.6	991.0	1007.8	998.2	995.8	988.6
77.5°	247.2	374.3	544.7	698.3	813.5	849.5	873.5	875.9	861.5	859.1	844.7
80°	170.4	304.8	470.3	614.3	719.9	755.9	767.9	758.3	746.3	731.9	712.7
82.5°	112.8	247.2	407.9	544.7	643.1	671.9	681.5	667.1	650.3	626.3	595.1
85°	60.0	199.2	355.1	487.1	580.7	607.1	611.9	585.5	559.1	527.9	496.7
87.5°	26.4	163.2	316.8	448.7	530.3	549.5	551.9	523.1	489.5	453.5	415.1
90°	4.8	139.2	292.8	419.9	499.1	515.9	515.9	477.5	443.9	405.5	362.3
92.5°	2.4	132.0	285.6	410.3	489.5	506.3	503.9	463.1	422.3	379.1	335.9
95°	2.4	115.2	268.8	400.7	482.3	499.1	496.7	453.5	410.3	364.7	316.8
97.5°	2.4	96.0	252.0	383.9	470.3	487.1	487.1	446.3	403.1	355.1	304.8
100°	0.0	74.4	232.8	367.1	453.5	475.1	477.5	439.1	393.5	345.5	297.6
102.5°	0.0	50.4	216.0	352.7	441.5	463.1	467.9	436.7	388.7	340.7	292.8
105°	2.4	31.2	194.4	335.9	429.5	453.5	460.7	434.3	386.3	340.7	292.8
107.5°	2.4	21.6	172.8	319.1	419.9	446.3	455.9	434.3	388.7	343.1	297.6
110°	2.4	19.2	146.4	302.4	407.9	436.7	451.1	436.7	393.5	350.3	304.8



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	2.4	14.4	110.4	280.8	393.5	427.1	446.3	439.1	400.7	357.5	314.4
115°	2.4	12.0	74.4	259.2	379.1	417.5	441.5	441.5	407.9	367.1	326.3
117.5°	2.4	12.0	50.4	230.4	362.3	405.5	431.9	443.9	417.5	376.7	340.7
120°	2.4	9.6	24.0	196.8	340.7	388.7	422.3	443.9	424.7	388.7	352.7
122.5°	2.4	9.6	19.2	151.2	316.8	369.5	407.9	441.5	431.9	398.3	367.1
125°	2.4	7.2	16.8	100.8	285.6	343.1	388.7	434.3	434.3	407.9	379.1
127.5°	2.4	7.2	14.4	72.0	244.8	314.4	362.3	422.3	434.3	415.1	391.1
130°	2.4	7.2	12.0	21.6	187.2	273.6	331.1	403.1	429.5	419.9	398.3
132.5°	2.4	4.8	12.0	16.8	120.0	213.6	288.0	371.9	415.1	419.9	405.5
135°	2.4	4.8	9.6	14.4	86.4	132.0	230.4	333.5	388.7	405.5	405.5
137.5°	2.4	4.8	9.6	12.0	38.4	98.4	144.0	288.0	355.1	386.3	393.5
140°	2.4	4.8	7.2	9.6	14.4	52.8	103.2	228.0	314.4	357.5	376.7
142.5°	2.4	4.8	7.2	9.6	12.0	12.0	62.4	132.0	264.0	319.1	350.3
145°	2.4	4.8	4.8	7.2	9.6	12.0	12.0	100.8	189.6	273.6	314.4
147.5°	2.4	2.4	4.8	7.2	9.6	9.6	9.6	45.6	112.8	208.8	268.8
150°	2.4	2.4	4.8	4.8	7.2	7.2	9.6	9.6	74.4	117.6	199.2
152.5°	2.4	2.4	4.8	4.8	7.2	7.2	7.2	9.6	9.6	79.2	110.4
155°	2.4	2.4	4.8	4.8	4.8	7.2	7.2	7.2	7.2	9.6	69.6
157.5°	2.4	2.4	4.8	4.8	4.8	4.8	4.8	7.2	7.2	9.6	9.6
160°	2.4	4.8	4.8	4.8	4.8	4.8	4.8	7.2	7.2	7.2	9.6
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°	4892.8	4892.8	4892.8	4892.8	4892.8	4892.8	4892.8	4892.8	4892.8	4892.8
2.5°	4811.2	4847.2	4847.2	4878.4	4895.2	4890.4	4895.2	4904.8	4876.0	4866.4
5°	4962.4	5034.4	5070.4	5152.0	5171.2	5207.2	5219.2	5260.0	5269.6	5240.8
7.5°	5437.5	5586.3	5682.3	5780.7	5823.9	5845.5	5883.9	5910.3	5951.1	5919.9
10°	5883.9	6063.8	6200.6	6308.6	6335.0	6356.6	6402.2	6467.0	6462.2	6457.4
12.5°	6270.2	6428.6	6596.6	6752.5	6831.7	6848.5	6915.7	6994.9	7009.3	6944.5
15°	6589.4	6810.1	6999.7	7165.3	7196.5	7239.7	7290.1	7316.5	7304.5	7314.1
17.5°	6855.7	7042.9	7177.3	7266.1	7285.3	7318.9	7364.4	7398.0	7402.8	7405.2
20°	6961.3	7086.1	7215.7	7338.0	7376.4	7410.0	7465.2	7494.0	7489.2	7474.8
22.5°	6942.1	7124.5	7244.5	7345.2	7383.6	7414.8	7462.8	7482.0	7474.8	7460.4
25°	6913.3	7069.3	7174.9	7227.7	7227.7	7251.7	7239.7	7225.3	7208.5	7210.9
27.5°	6776.5	6867.7	6939.7	6999.7	7006.9	7009.3	7002.1	6987.7	6978.1	6956.5
30°	6498.2	6608.6	6642.2	6637.4	6627.8	6625.4	6596.6	6575.0	6548.6	6551.0
32.5°	6171.8	6195.8	6210.2	6169.4	6145.4	6140.6	6114.2	6078.2	6042.3	6003.9
35°	5751.9	5735.1	5701.5	5672.7	5653.5	5624.7	5586.3	5550.3	5504.7	5507.1
37.5°	5346.4	5293.6	5245.6	5166.4	5152.0	5084.8	5010.4	4952.8	4878.4	4837.6
40°	4924.0	4871.2	4811.2	4724.9	4686.5	4624.1	4542.5	4446.5	4386.5	4362.5
42.5°	4520.9	4456.1	4386.5	4283.3	4235.3	4184.9	4098.6	4005.0	3961.8	3954.6
45°	4127.4	4053.0	3985.8	3870.6	3820.2	3760.2	3671.4	3613.8	3551.4	3537.0
47.5°	3748.2	3683.4	3580.2	3491.5	3443.5	3393.1	3301.9	3249.1	3203.5	3186.7
50°	3381.1	3318.7	3239.5	3141.1	3095.5	3047.5	2982.7	2932.3	2879.5	2862.8
52.5°	3052.3	2989.9	2908.3	2831.6	2786.0	2757.2	2697.2	2639.6	2598.8	2572.4
55°	2735.6	2678.0	2603.6	2531.6	2514.8	2476.4	2406.8	2356.4	2330.0	2332.4
57.5°	2445.2	2394.8	2337.2	2267.6	2241.2	2205.3	2159.7	2099.7	2068.5	2058.9
60°	2181.3	2133.3	2085.3	2032.5	1998.9	1972.5	1910.1	1862.1	1821.3	1816.5
62.5°	1929.3	1893.3	1852.5	1799.7	1770.9	1742.1	1686.9	1641.3	1610.1	1600.5
65°	1710.9	1679.7	1631.7	1588.6	1559.8	1531.0	1478.2	1432.6	1406.2	1379.8
67.5°	1495.0	1468.6	1432.6	1387.0	1360.6	1331.8	1286.2	1235.8	1204.6	1197.4
70°	1303.0	1274.2	1245.4	1197.4	1173.4	1156.6	1106.2	1055.8	1031.8	1022.2
72.5°	1137.4	1106.2	1065.4	1031.8	1017.4	986.2	938.3	904.7	873.5	854.3
75°	964.6	945.5	916.7	878.3	851.9	830.3	791.9	758.3	731.9	712.7
77.5°	823.1	799.1	775.1	736.7	717.5	698.3	657.5	628.7	602.3	592.7
80°	691.1	669.5	635.9	607.1	590.3	573.5	542.3	511.1	491.9	482.3
82.5°	571.1	551.9	525.5	501.5	482.3	470.3	441.5	415.1	398.3	383.9
85°	472.7	448.7	424.7	403.1	388.7	379.1	357.5	338.3	316.8	312.0
87.5°	388.7	369.5	347.9	326.3	316.8	304.8	285.6	271.2	254.4	247.2
90°	333.5	309.6	290.4	273.6	264.0	256.8	242.4	223.2	211.2	204.0
92.5°	302.4	280.8	264.0	247.2	240.0	232.8	216.0	201.6	189.6	180.0
95°	283.2	261.6	244.8	230.4	223.2	218.4	204.0	189.6	177.6	170.4
97.5°	268.8	244.8	228.0	216.0	208.8	204.0	192.0	180.0	168.0	160.8
100°	256.8	232.8	216.0	204.0	199.2	194.4	182.4	170.4	160.8	153.6
102.5°	252.0	225.6	208.8	199.2	194.4	189.6	177.6	168.0	156.0	148.8
105°	252.0	223.2	206.4	194.4	189.6	184.8	175.2	165.6	153.6	146.4
107.5°	256.8	225.6	206.4	196.8	192.0	187.2	175.2	165.6	153.6	146.4
110°	264.0	232.8	211.2	199.2	194.4	189.6	177.6	168.0	156.0	148.8





TEST NUMBER: P232524

CATALOG NUMBER: 8SKB1-LD5-16-N-UNV-L850-CD2-U

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	273.6	240.0	218.4	204.0	199.2	194.4	182.4	172.8	160.8	153.6
115°	285.6	249.6	228.0	211.2	206.4	201.6	189.6	177.6	168.0	160.8
117.5°	300.0	264.0	237.6	220.8	216.0	208.8	196.8	184.8	175.2	168.0
120°	314.4	280.8	252.0	232.8	225.6	218.4	206.4	194.4	182.4	175.2
122.5°	331.1	295.2	266.4	247.2	240.0	232.8	218.4	206.4	194.4	184.8
125°	347.9	314.4	283.2	261.6	252.0	244.8	230.4	216.0	206.4	196.8
127.5°	362.3	331.1	300.0	278.4	268.8	259.2	244.8	230.4	218.4	211.2
130°	374.3	347.9	319.1	295.2	285.6	278.4	259.2	244.8	232.8	225.6
132.5°	386.3	362.3	338.3	314.4	304.8	295.2	278.4	261.6	249.6	240.0
135°	393.5	374.3	355.1	333.5	323.9	312.0	295.2	278.4	264.0	254.4
137.5°	393.5	383.9	367.1	350.3	340.7	331.1	312.0	295.2	280.8	273.6
140°	381.5	383.9	376.7	364.7	355.1	347.9	331.1	312.0	297.6	290.4
142.5°	364.7	371.9	376.7	369.5	364.7	359.9	345.5	328.7	314.4	304.8
145°	338.3	352.7	362.3	369.5	367.1	364.7	352.7	340.7	326.3	316.8
147.5°	304.8	326.3	338.3	355.1	359.9	359.9	355.1	345.5	333.5	326.3
150°	256.8	288.0	309.6	326.3	333.5	343.1	343.1	335.9	328.7	321.5
152.5°	182.4	232.8	264.0	288.0	297.6	307.2	319.1	314.4	304.8	300.0
155°	103.2	127.2	192.0	230.4	242.4	254.4	273.6	278.4	276.0	268.8
157.5°	52.8	86.4	108.0	124.8	132.0	151.2	189.6	216.0	213.6	218.4
160°	12.0	14.4	40.8	76.8	86.4	91.2	100.8	108.0	108.0	103.2
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)