

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: P232494

Luminaire Tested: **8SKB1-LD5-8-W-UNV-L850-CD1-U**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P232494  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1709-317-5)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8SKB1-LD5-8-W-UNV-L850-CD1-U  
Description: METALUX SKYBAR 8' WAVESTREAM STRIP  
WITH WIDE LENS  
Light Source: (392) 5000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

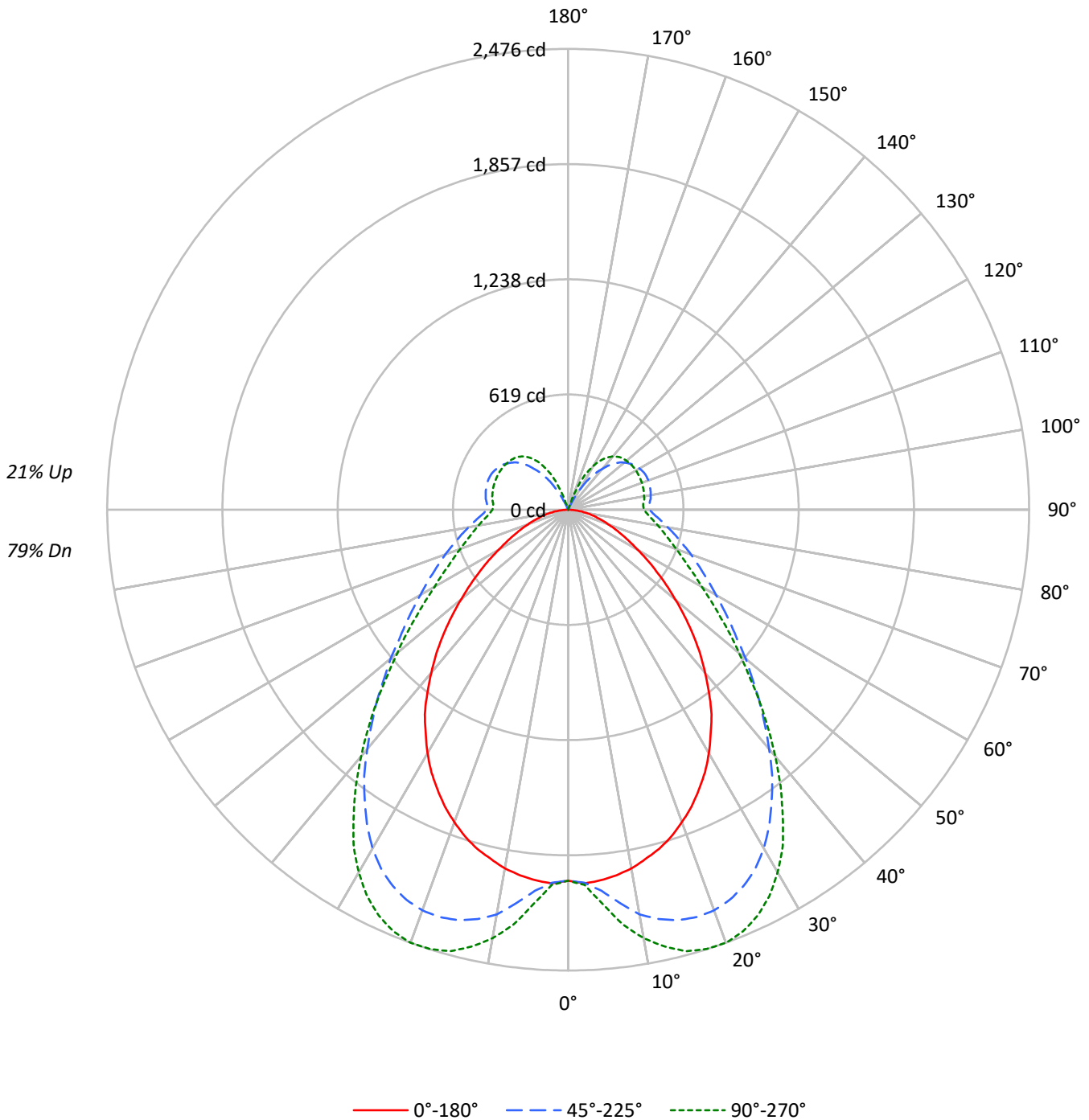
Lumens per Lamp: N/A  
Luminaire Lumens: 8298.0 lumens  
Efficiency: N/A  
Efficacy: 139.5 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.48 / 1.44  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.29')  
CIE Type: Semi-Direct

Input Watts (W): 59.5  
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	114	114	114	114	109	109	109	109	99	99	99	91	91	91	83	83	83	79
1	103	97	93	88	98	93	89	85	85	82	78	77	75	72	70	68	67	63
2	93	85	78	72	89	81	75	69	74	69	64	68	63	60	62	58	55	52
3	85	74	66	60	81	71	64	58	65	59	54	60	55	51	55	51	47	44
4	78	66	57	51	74	63	55	49	58	51	46	53	48	43	49	44	41	38
5	72	59	50	44	68	57	49	42	52	45	40	48	42	38	44	39	36	33
6	66	53	44	38	63	51	43	37	47	40	35	44	38	33	40	35	31	29
7	61	48	40	34	58	46	38	33	43	36	31	40	34	30	37	32	28	26
8	57	44	36	30	54	42	35	29	39	33	28	36	31	26	34	29	25	23
9	53	40	32	27	51	39	31	26	36	30	25	34	28	24	31	26	23	21
10	50	37	29	24	48	36	29	24	33	27	23	31	26	22	29	24	21	19

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	10726	10726	10726
5°	10765	10333	10419
10°	10628	10492	10597
15°	10411	10359	10425
20°	10098	10020	9955
25°	9693	9483	9258
30°	9196	8758	8353
35°	8602	7847	7263
40°	7794	6883	6143
45°	6950	5968	5094
50°	6033	5170	4197
55°	5162	4499	3490
60°	4374	3993	2947
65°	3749	3600	2573
70°	3277	3308	2309
75°	2861	3061	2118
80°	2453	2883	1991
85°	1822	2776	1897



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	201.2	2.4
10°-20°	632.6	7.6
20°-30°	991.3	11.9
30°-40°	1135.1	13.7
40°-50°	1045.5	12.6
50°-60°	858.0	10.3
60°-70°	686.0	8.3
70°-80°	551.1	6.6
80°-90°	438.3	5.3
90°-100°	391.8	4.7
100°-110°	381.6	4.6
110°-120°	345.8	4.2
120°-130°	285.8	3.4
130°-140°	205.0	2.5
140°-150°	113.9	1.4
150°-160°	34.3	0.4
160°-170°	0.8	0.0
170°-180°	0.0	0.0
0°-30°	1825.0	22.0
0°-40°	2960.2	35.7
0°-60°	4863.7	58.6
0°-90°	6539.1	78.8
90°-120°	1119.1	13.5
90°-150°	1723.9	20.8
90°-180°	1759.0	21.2
0°-180°	8298.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1993	1993	1993	1993	1993	
5°	1999	2019	2055	2126	2126	189
15°	1887	2078	2283	2426	2456	531
25°	1660	1976	2230	2388	2407	763
35°	1343	1670	1906	2018	2008	834
45°	946	1260	1451	1489	1450	730
55°	579	906	1062	1035	992	522
65°	317	665	798	744	708	319
75°	156	506	615	568	545	168
85°	42	383	482	452	440	46
90°	2	340	437	416	407	3
95°	1	338	439	416	405	1
105°	1	331	456	433	419	1
115°	1	298	455	442	421	1
125°	1	233	424	438	416	1
135°	1	85	352	409	397	1
145°	1	4	216	331	334	1
155°	1	1	33	154	193	1
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1993.0	1993.0	1993.0	1993.0	1993.0	1993.0	1993.0	1993.0	1993.0	1993.0	1993.0
2.5°	2009.7	2001.3	1995.4	2001.3	2003.7	2006.1	2012.1	2010.9	2012.1	2009.7	2006.1
5°	1999.0	1991.8	1989.4	2001.3	2013.3	2019.2	2027.6	2036.0	2043.1	2052.7	2055.0
7.5°	1981.1	1977.5	1979.9	2001.3	2020.4	2034.8	2046.7	2068.2	2089.7	2111.1	2131.4
10°	1957.2	1954.8	1965.5	1997.8	2028.8	2049.1	2069.4	2108.8	2145.7	2179.2	2207.8
12.5°	1921.4	1927.4	1945.3	1988.2	2037.1	2065.8	2098.0	2146.9	2186.3	2224.5	2253.2
15°	1886.8	1890.4	1925.0	1976.3	2033.6	2077.7	2111.1	2173.2	2213.8	2253.2	2283.0
17.5°	1841.4	1849.8	1888.0	1960.8	2031.2	2070.6	2111.1	2160.1	2209.0	2254.3	2294.9
20°	1786.5	1804.4	1855.7	1935.7	2015.7	2055.0	2090.8	2150.5	2200.6	2244.8	2291.3
22.5°	1728.1	1748.3	1805.6	1901.1	1983.4	2022.8	2057.4	2123.1	2174.4	2218.5	2268.7
25°	1660.0	1686.3	1754.3	1856.9	1935.7	1976.3	2013.3	2080.1	2133.8	2178.0	2230.5
27.5°	1590.8	1620.6	1694.6	1798.5	1879.6	1917.8	1956.0	2022.8	2076.5	2120.7	2175.6
30°	1510.9	1543.1	1626.6	1726.9	1806.8	1848.6	1883.2	1948.8	2007.3	2046.7	2101.6
32.5°	1424.9	1461.9	1551.4	1648.1	1728.1	1767.4	1802.0	1865.3	1917.8	1959.6	2009.7
35°	1342.6	1372.4	1463.1	1557.4	1633.8	1669.6	1710.2	1771.0	1817.6	1860.5	1905.9
37.5°	1243.5	1279.3	1371.2	1460.7	1537.1	1575.3	1608.7	1664.8	1707.8	1748.3	1799.7
40°	1143.3	1182.7	1278.1	1358.1	1436.9	1466.7	1500.1	1551.4	1592.0	1642.1	1679.1
42.5°	1049.0	1086.0	1176.7	1257.9	1331.8	1361.7	1393.9	1447.6	1482.2	1525.2	1562.2
45°	946.4	984.6	1081.2	1157.6	1228.0	1260.2	1293.7	1337.8	1377.2	1411.8	1451.2
47.5°	848.5	893.9	986.9	1058.6	1130.2	1160.0	1188.6	1235.2	1274.6	1311.6	1339.0
50°	751.8	800.8	891.5	969.0	1037.1	1066.9	1095.5	1142.1	1182.7	1214.9	1243.5
52.5°	663.5	714.9	807.9	889.1	950.0	981.0	1009.6	1055.0	1095.5	1125.4	1144.5
55°	578.8	636.1	732.8	811.5	872.4	905.8	928.5	976.2	1016.8	1044.2	1062.1
57.5°	504.8	568.1	660.0	741.1	804.4	834.2	861.6	907.0	945.2	971.4	985.8
60°	432.0	502.4	597.9	676.7	741.1	769.7	799.6	844.9	880.7	904.6	917.7
62.5°	371.1	445.1	544.2	620.6	686.2	714.9	741.1	786.5	821.1	844.9	855.7
65°	317.4	395.0	495.3	571.6	634.9	664.7	692.2	738.7	770.9	793.6	798.4
67.5°	270.9	349.7	451.1	526.3	591.9	619.4	646.8	693.4	724.4	743.5	747.1
70°	229.1	309.1	410.5	485.7	550.2	580.0	607.4	649.2	681.4	696.9	701.7
72.5°	190.9	274.5	372.3	449.9	514.4	541.8	568.1	612.2	642.1	656.4	655.2
75°	156.3	242.3	340.1	416.5	477.4	506.0	532.3	575.2	605.1	617.0	614.6
77.5°	126.5	214.8	309.1	383.1	445.1	473.8	497.7	540.6	568.1	581.2	578.8
80°	95.5	185.0	279.3	352.1	414.1	440.4	466.6	507.2	534.6	547.8	541.8
82.5°	69.2	157.5	251.8	323.4	384.3	411.7	435.6	477.4	503.6	514.4	510.8
85°	41.8	130.1	222.0	296.0	356.8	383.1	409.3	448.7	475.0	485.7	482.1
87.5°	17.9	105.0	196.9	270.9	331.8	358.0	383.1	422.5	447.5	458.3	454.7
90°	2.4	88.3	181.4	254.2	313.9	340.1	365.2	404.6	429.6	440.4	436.8
92.5°	1.2	84.7	176.6	249.4	309.1	336.5	360.4	401.0	427.2	436.8	435.6
95°	1.2	78.8	174.2	249.4	310.3	337.7	362.8	403.4	429.6	440.4	439.2
97.5°	1.2	70.4	170.7	248.2	311.5	340.1	365.2	408.1	435.6	447.5	446.3
100°	1.2	57.3	163.5	244.6	309.1	338.9	364.0	408.1	436.8	449.9	449.9
102.5°	1.2	39.4	155.1	238.7	306.7	335.3	361.6	407.0	436.8	451.1	453.5
105°	1.2	23.9	144.4	231.5	300.7	330.6	358.0	404.6	435.6	452.3	455.9
107.5°	1.2	15.5	131.3	223.2	294.8	325.8	353.2	401.0	433.2	452.3	457.1
110°	1.2	13.1	114.6	213.6	286.4	317.4	346.1	396.2	429.6	451.1	458.3



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	1.2	10.7	88.3	200.5	276.9	309.1	338.9	387.9	424.9	446.3	457.1
115°	1.2	8.4	57.3	185.0	264.9	298.4	328.2	379.5	416.5	441.6	454.7
117.5°	1.2	7.2	37.0	167.1	251.8	285.2	316.3	368.8	408.1	434.4	449.9
120°	1.2	6.0	15.5	143.2	235.1	270.9	301.9	354.4	396.2	424.9	442.8
122.5°	1.2	4.8	11.9	107.4	216.0	253.0	285.2	340.1	381.9	414.1	433.2
125°	1.2	4.8	9.5	69.2	192.1	232.7	267.3	323.4	367.6	401.0	423.7
127.5°	1.2	3.6	8.4	46.5	163.5	208.8	245.8	304.3	349.7	384.3	409.3
130°	1.2	3.6	7.2	20.3	121.7	179.0	219.6	281.6	329.4	366.4	393.8
132.5°	1.2	2.4	6.0	8.4	75.2	138.4	186.2	253.0	305.5	344.9	375.9
135°	1.2	2.4	4.8	7.2	50.1	84.7	145.6	220.8	274.5	316.3	352.1
137.5°	1.2	2.4	3.6	6.0	20.3	56.1	89.5	185.0	241.1	285.2	322.2
140°	1.2	2.4	3.6	4.8	6.0	26.3	60.9	140.8	204.1	251.8	287.6
142.5°	1.2	2.4	3.6	3.6	4.8	6.0	29.8	82.3	163.5	214.8	254.2
145°	1.2	1.2	2.4	3.6	3.6	3.6	4.8	56.1	106.2	174.2	216.0
147.5°	1.2	1.2	2.4	2.4	3.6	3.6	3.6	22.7	65.6	122.9	174.2
150°	1.2	1.2	2.4	2.4	2.4	2.4	2.4	2.4	33.4	66.8	118.1
152.5°	1.2	1.2	1.2	2.4	2.4	2.4	2.4	2.4	3.6	38.2	65.6
155°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	3.6	33.4
157.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
160°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
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°	1993.0	1993.0	1993.0	1993.0	1993.0	1993.0	1993.0	1993.0	1993.0	1993.0
2.5°	2012.1	2022.8	2027.6	2032.4	2033.6	2034.8	2032.4	2031.2	2022.8	2018.1
5°	2071.8	2098.0	2108.8	2124.3	2125.5	2126.7	2133.8	2130.2	2131.4	2125.5
7.5°	2158.9	2197.1	2213.8	2234.1	2238.8	2244.8	2256.7	2257.9	2256.7	2248.4
10°	2240.0	2272.2	2297.3	2316.4	2323.6	2328.3	2342.7	2346.2	2343.9	2337.9
12.5°	2289.0	2330.7	2355.8	2383.2	2390.4	2397.6	2409.5	2415.5	2408.3	2404.7
15°	2330.7	2374.9	2395.2	2425.0	2426.2	2439.3	2459.6	2462.0	2458.4	2456.0
17.5°	2341.5	2386.8	2416.6	2442.9	2452.5	2460.8	2472.7	2482.3	2483.5	2473.9
20°	2339.1	2382.0	2417.8	2445.3	2456.0	2462.0	2477.5	2484.7	2481.1	2476.3
22.5°	2320.0	2362.9	2398.7	2422.6	2432.2	2441.7	2456.0	2462.0	2462.0	2452.5
25°	2280.6	2323.6	2354.6	2379.7	2388.0	2397.6	2411.9	2415.5	2413.1	2407.1
27.5°	2224.5	2262.7	2293.7	2315.2	2323.6	2331.9	2347.4	2351.0	2346.2	2340.3
30°	2142.2	2181.5	2212.6	2231.7	2238.8	2244.8	2254.3	2262.7	2255.5	2249.6
32.5°	2052.7	2088.5	2109.9	2127.8	2132.6	2137.4	2146.9	2150.5	2143.4	2144.6
35°	1947.6	1978.7	2003.7	2015.7	2018.1	2016.9	2021.6	2022.8	2024.0	2008.5
37.5°	1833.1	1860.5	1872.5	1889.2	1885.6	1891.6	1896.3	1891.6	1879.6	1873.6
40°	1710.2	1728.1	1748.3	1754.3	1750.7	1759.1	1756.7	1748.3	1735.2	1730.4
42.5°	1588.4	1608.7	1615.9	1620.6	1617.1	1618.3	1613.5	1611.1	1598.0	1587.2
45°	1472.7	1487.0	1490.6	1489.4	1489.4	1483.4	1477.4	1467.9	1456.0	1450.0
47.5°	1359.3	1368.8	1370.0	1364.1	1359.3	1352.1	1353.3	1336.6	1322.3	1315.1
50°	1254.3	1257.9	1254.3	1243.5	1241.1	1232.8	1228.0	1214.9	1201.8	1198.2
52.5°	1160.0	1158.8	1151.6	1139.7	1134.9	1126.6	1118.2	1106.3	1093.2	1093.2
55°	1068.1	1064.5	1055.0	1041.8	1034.7	1031.1	1020.4	1007.2	997.7	991.7
57.5°	988.1	981.0	969.0	957.1	947.6	938.0	930.9	921.3	909.4	907.0
60°	916.5	902.2	891.5	878.3	871.2	862.8	853.3	846.1	836.6	827.0
62.5°	849.7	837.8	823.5	810.3	803.2	796.0	786.5	775.7	769.7	767.4
65°	791.2	779.3	762.6	749.5	743.5	736.3	729.2	717.2	713.7	707.7
67.5°	738.7	723.2	707.7	695.8	689.8	687.4	680.2	673.1	664.7	660.0
70°	689.8	674.3	660.0	651.6	644.4	642.1	636.1	626.5	620.6	617.0
72.5°	643.2	630.1	618.2	606.3	601.5	600.3	595.5	588.3	582.4	578.8
75°	603.9	590.7	578.8	572.8	568.1	564.5	562.1	554.9	551.4	545.4
77.5°	569.3	553.7	543.0	537.0	533.5	531.1	528.7	525.1	520.3	516.7
80°	532.3	520.3	512.0	506.0	503.6	501.2	498.8	496.5	492.9	489.3
82.5°	501.2	490.5	483.3	478.6	478.6	476.2	475.0	472.6	469.0	464.2
85°	471.4	461.8	455.9	453.5	452.3	451.1	449.9	447.5	443.9	440.4
87.5°	446.3	439.2	433.2	432.0	432.0	430.8	429.6	428.4	424.9	421.3
90°	429.6	422.5	418.9	417.7	416.5	416.5	416.5	414.1	410.5	407.0
92.5°	427.2	420.1	416.5	414.1	414.1	414.1	414.1	411.7	408.1	403.4
95°	430.8	423.7	420.1	417.7	416.5	416.5	415.3	412.9	409.3	404.6
97.5°	439.2	432.0	427.2	423.7	422.5	422.5	421.3	418.9	415.3	411.7
100°	443.9	436.8	432.0	428.4	427.2	426.0	424.9	422.5	418.9	414.1
102.5°	447.5	440.4	434.4	432.0	430.8	429.6	427.2	424.9	421.3	416.5
105°	449.9	443.9	439.2	434.4	433.2	432.0	429.6	427.2	422.5	418.9
107.5°	453.5	447.5	441.6	438.0	435.6	434.4	432.0	429.6	424.9	420.1
110°	454.7	449.9	443.9	440.4	438.0	436.8	433.2	429.6	424.9	421.3





TEST NUMBER: P232494

CATALOG NUMBER: 8SKB1-LD5-8-W-UNV-L850-CD1-U

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	455.9	452.3	446.3	441.6	440.4	438.0	434.4	430.8	426.0	421.3
115°	455.9	452.3	447.5	442.8	441.6	439.2	435.6	430.8	426.0	421.3
117.5°	454.7	452.3	448.7	443.9	441.6	439.2	435.6	430.8	424.9	421.3
120°	451.1	451.1	447.5	443.9	441.6	439.2	434.4	429.6	424.9	420.1
122.5°	445.1	447.5	445.1	441.6	440.4	438.0	434.4	428.4	422.5	418.9
125°	436.8	442.8	441.6	439.2	438.0	435.6	432.0	427.2	421.3	416.5
127.5°	426.0	434.4	436.8	435.6	434.4	433.2	428.4	423.7	418.9	412.9
130°	412.9	423.7	428.4	428.4	428.4	427.2	424.9	420.1	414.1	409.3
132.5°	396.2	409.3	416.5	420.1	420.1	420.1	417.7	414.1	409.3	403.4
135°	377.1	393.8	403.4	408.1	409.3	409.3	409.3	407.0	402.2	397.4
137.5°	354.4	373.5	386.7	393.8	396.2	397.4	398.6	396.2	391.4	386.7
140°	321.0	348.5	365.2	374.7	377.1	380.7	383.1	380.7	377.1	373.5
142.5°	287.6	316.3	340.1	353.2	355.6	359.2	362.8	362.8	359.2	355.6
145°	251.8	280.5	305.5	327.0	330.6	334.2	338.9	341.3	337.7	334.2
147.5°	210.0	239.9	266.1	290.0	300.7	305.5	310.3	312.7	311.5	307.9
150°	165.9	198.1	223.2	247.0	257.8	272.1	278.1	279.3	278.1	274.5
152.5°	100.2	146.8	175.4	199.3	208.8	222.0	238.7	242.3	239.9	237.5
155°	56.1	76.4	107.4	143.2	153.9	165.9	186.2	194.5	193.3	193.3
157.5°	16.7	41.8	57.3	70.4	75.2	82.3	106.2	126.5	132.5	133.7
160°	1.2	1.2	14.3	28.6	35.8	43.0	54.9	62.1	63.3	64.4
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)