

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: P232493

Luminaire Tested: **8SKB1-LD5-8-W-UNV-L840-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P232493
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-L840-CD1-U
Description: METALUX SKYBAR 8' WAVESTREAM STRIP
WITH WIDE LENS
Light Source: (392) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8044.0 lumens
Efficiency: N/A
Efficacy: 135.2 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

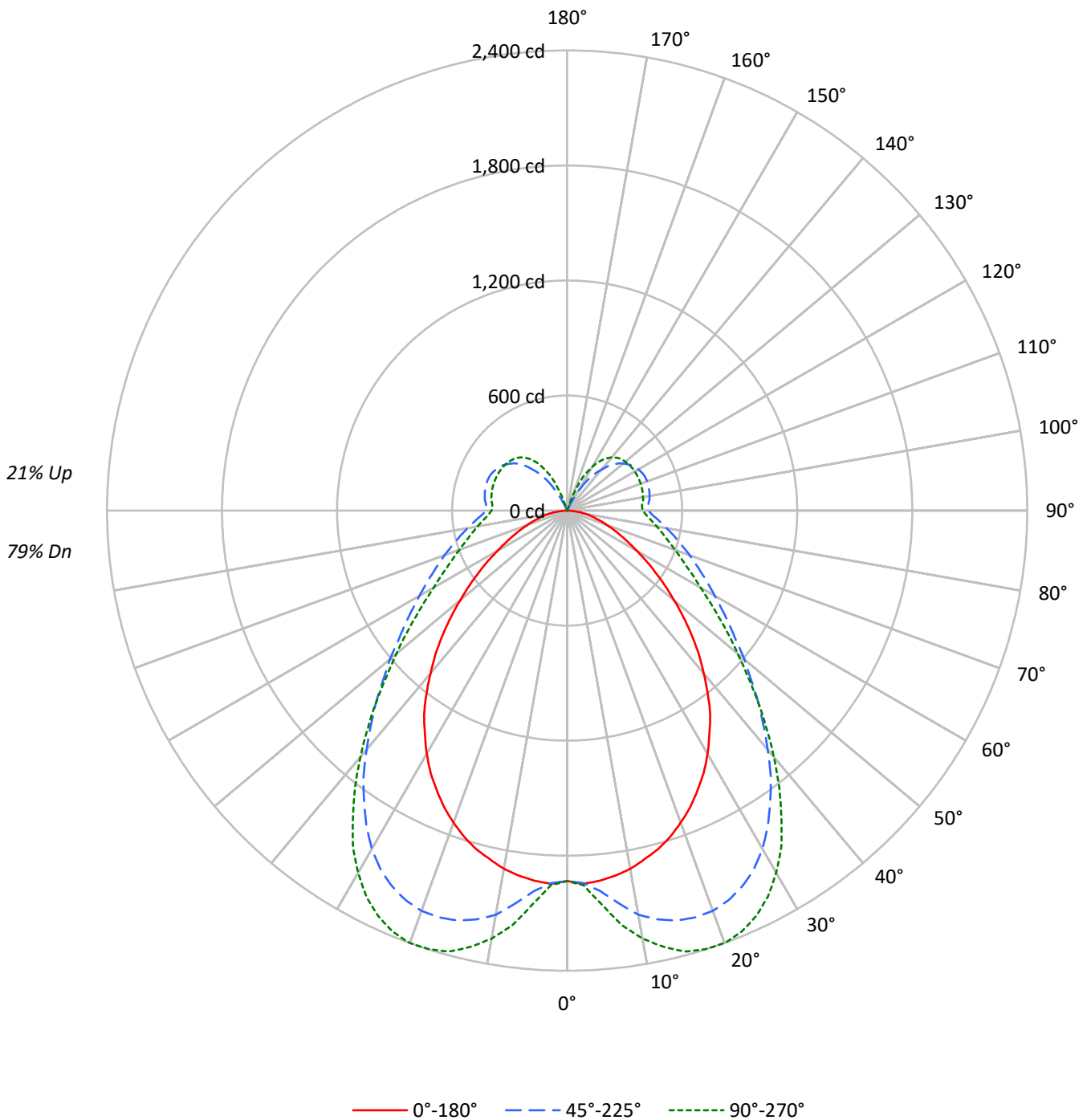
Input Watts (W): 59.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	10398	10398	10398
5°	10436	10017	10100
10°	10302	10170	10272
15°	10092	10042	10106
20°	9789	9714	9650
25°	9396	9193	8974
30°	8914	8490	8098
35°	8338	7607	7040
40°	7555	6672	5955
45°	6737	5785	4938
50°	5848	5012	4068
55°	5004	4362	3383
60°	4240	3871	2857
65°	3634	3490	2495
70°	3177	3207	2238
75°	2775	2967	2053
80°	2378	2794	1930
85°	1765	2691	1839



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	195.0	2.4
10°-20°	613.2	7.6
20°-30°	960.9	11.9
30°-40°	1100.4	13.7
40°-50°	1013.5	12.6
50°-60°	831.8	10.3
60°-70°	665.0	8.3
70°-80°	534.2	6.6
80°-90°	424.9	5.3
90°-100°	379.8	4.7
100°-110°	369.9	4.6
110°-120°	335.2	4.2
120°-130°	277.1	3.4
130°-140°	198.7	2.5
140°-150°	110.4	1.4
150°-160°	33.2	0.4
160°-170°	0.7	0.0
170°-180°	0.0	0.0
0°-30°	1769.2	22.0
0°-40°	2869.6	35.7
0°-60°	4714.8	58.6
0°-90°	6338.9	78.8
90°-120°	1084.9	13.5
90°-150°	1671.1	20.8
90°-180°	1705.0	21.2
0°-180°	8044.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1932	1932	1932	1932	1932	
5°	1938	1957	1992	2060	2060	184
15°	1829	2014	2213	2352	2381	514
25°	1609	1916	2162	2315	2333	740
35°	1302	1618	1848	1956	1947	808
45°	917	1222	1407	1444	1406	708
55°	561	878	1030	1003	961	506
65°	308	644	774	721	686	309
75°	152	490	596	551	529	163
85°	40	371	467	438	427	44
90°	2	330	423	404	394	3
95°	1	327	426	404	392	1
105°	1	320	442	420	406	1
115°	1	289	441	428	408	1
125°	1	226	411	425	404	1
135°	1	82	341	397	385	1
145°	1	4	209	320	324	1
155°	1	1	32	149	187	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°	1932.0	1932.0	1932.0	1932.0	1932.0	1932.0	1932.0	1932.0	1932.0	1932.0	1932.0
2.5°	1948.2	1940.1	1934.3	1940.1	1942.4	1944.7	1950.5	1949.3	1950.5	1948.2	1944.7
5°	1937.8	1930.8	1928.5	1940.1	1951.7	1957.4	1965.5	1973.6	1980.6	1989.8	1992.1
7.5°	1920.4	1916.9	1919.3	1940.1	1958.6	1972.5	1984.0	2004.9	2025.7	2046.5	2066.2
10°	1897.3	1895.0	1905.4	1936.6	1966.7	1986.4	2006.0	2044.2	2080.1	2112.5	2140.2
12.5°	1862.6	1868.4	1885.7	1927.4	1974.8	2002.6	2033.8	2081.2	2119.4	2156.4	2184.2
15°	1829.0	1832.5	1866.0	1915.8	1971.3	2014.1	2046.5	2106.7	2146.0	2184.2	2213.1
17.5°	1785.1	1793.2	1830.2	1900.7	1969.0	2007.2	2046.5	2093.9	2141.4	2185.3	2224.7
20°	1731.8	1749.2	1798.9	1876.5	1954.0	1992.1	2026.8	2084.7	2133.3	2176.1	2221.2
22.5°	1675.2	1694.8	1750.4	1842.9	1922.7	1960.9	1994.5	2058.1	2107.8	2150.6	2199.2
25°	1609.2	1634.7	1700.6	1800.1	1876.5	1915.8	1951.7	2016.4	2068.5	2111.3	2162.2
27.5°	1542.1	1571.0	1642.8	1743.4	1822.1	1859.1	1896.1	1960.9	2013.0	2055.8	2109.0
30°	1464.6	1495.8	1576.8	1674.0	1751.5	1792.0	1825.6	1889.2	1945.9	1984.0	2037.3
32.5°	1381.3	1417.2	1503.9	1597.6	1675.2	1713.3	1746.9	1808.2	1859.1	1899.6	1948.2
35°	1301.5	1330.4	1418.3	1509.7	1583.8	1618.5	1657.8	1716.8	1761.9	1803.6	1847.5
37.5°	1205.5	1240.2	1329.3	1416.0	1490.1	1527.1	1559.5	1613.8	1655.5	1694.8	1744.6
40°	1108.3	1146.5	1239.0	1316.5	1392.9	1421.8	1454.2	1503.9	1543.3	1591.9	1627.7
42.5°	1016.9	1052.8	1140.7	1219.3	1291.1	1320.0	1351.2	1403.3	1436.8	1478.5	1514.4
45°	917.4	954.4	1048.1	1122.2	1190.4	1221.7	1254.1	1296.9	1335.0	1368.6	1406.8
47.5°	822.5	866.5	956.7	1026.2	1095.6	1124.5	1152.2	1197.4	1235.5	1271.4	1298.0
50°	728.8	776.3	864.2	939.4	1005.3	1034.2	1062.0	1107.1	1146.5	1177.7	1205.5
52.5°	643.2	693.0	783.2	861.9	920.9	951.0	978.7	1022.7	1062.0	1090.9	1109.4
55°	561.1	616.6	710.3	786.7	845.7	878.1	900.1	946.3	985.7	1012.3	1029.6
57.5°	489.4	550.7	639.8	718.4	779.7	808.7	835.3	879.2	916.2	941.7	955.6
60°	418.8	487.0	579.6	655.9	718.4	746.2	775.1	819.1	853.8	876.9	889.6
62.5°	359.8	431.5	527.5	601.6	665.2	693.0	718.4	762.4	795.9	819.1	829.5
65°	307.7	382.9	480.1	554.1	615.5	644.4	671.0	716.1	747.3	769.3	774.0
67.5°	262.6	339.0	437.3	510.2	573.8	600.4	627.0	672.1	702.2	720.7	724.2
70°	222.1	299.6	398.0	470.8	533.3	562.2	588.9	629.3	660.6	675.6	680.2
72.5°	185.1	266.1	360.9	436.1	498.6	525.2	550.7	593.5	622.4	636.3	635.1
75°	151.6	234.8	329.7	403.8	462.8	490.5	516.0	557.6	586.5	598.1	595.8
77.5°	122.6	208.2	299.6	371.4	431.5	459.3	482.4	524.1	550.7	563.4	561.1
80°	92.6	179.3	270.7	341.3	401.4	426.9	452.3	491.7	518.3	531.0	525.2
82.5°	67.1	152.7	244.1	313.5	372.5	399.1	422.3	462.8	488.2	498.6	495.1
85°	40.5	126.1	215.2	286.9	345.9	371.4	396.8	435.0	460.4	470.8	467.4
87.5°	17.4	101.8	190.9	262.6	321.6	347.1	371.4	409.5	433.8	444.2	440.8
90°	2.3	85.6	175.8	246.4	304.3	329.7	354.0	392.2	416.5	426.9	423.4
92.5°	1.2	82.1	171.2	241.8	299.6	326.2	349.4	388.7	414.2	423.4	422.3
95°	1.2	76.4	168.9	241.8	300.8	327.4	351.7	391.0	416.5	426.9	425.7
97.5°	1.2	68.3	165.4	240.6	301.9	329.7	354.0	395.7	422.3	433.8	432.7
100°	1.2	55.5	158.5	237.2	299.6	328.6	352.8	395.7	423.4	436.1	436.1
102.5°	1.2	38.2	150.4	231.4	297.3	325.1	350.5	394.5	423.4	437.3	439.6
105°	1.2	23.1	140.0	224.4	291.5	320.5	347.1	392.2	422.3	438.5	441.9
107.5°	1.2	15.0	127.3	216.3	285.7	315.8	342.4	388.7	419.9	438.5	443.1
110°	1.2	12.7	111.1	207.1	277.7	307.7	335.5	384.1	416.5	437.3	444.2



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	1.2	10.4	85.6	194.4	268.4	299.6	328.6	376.0	411.8	432.7	443.1
115°	1.2	8.1	55.5	179.3	256.8	289.2	318.1	367.9	403.8	428.0	440.8
117.5°	1.2	6.9	35.9	162.0	244.1	276.5	306.6	357.5	395.7	421.1	436.1
120°	1.2	5.8	15.0	138.8	227.9	262.6	292.7	343.6	384.1	411.8	429.2
122.5°	1.2	4.6	11.6	104.1	209.4	245.3	276.5	329.7	370.2	401.4	419.9
125°	1.2	4.6	9.3	67.1	186.3	225.6	259.1	313.5	356.3	388.7	410.7
127.5°	1.2	3.5	8.1	45.1	158.5	202.5	238.3	295.0	339.0	372.5	396.8
130°	1.2	3.5	6.9	19.7	118.0	173.5	212.9	273.0	319.3	355.2	381.8
132.5°	1.2	2.3	5.8	8.1	72.9	134.2	180.5	245.3	296.2	334.3	364.4
135°	1.2	2.3	4.6	6.9	48.6	82.1	141.1	214.0	266.1	306.6	341.3
137.5°	1.2	2.3	3.5	5.8	19.7	54.4	86.8	179.3	233.7	276.5	312.4
140°	1.2	2.3	3.5	4.6	5.8	25.5	59.0	136.5	197.8	244.1	278.8
142.5°	1.2	2.3	3.5	3.5	4.6	5.8	28.9	79.8	158.5	208.2	246.4
145°	1.2	1.2	2.3	3.5	3.5	3.5	4.6	54.4	103.0	168.9	209.4
147.5°	1.2	1.2	2.3	2.3	3.5	3.5	3.5	22.0	63.6	119.2	168.9
150°	1.2	1.2	2.3	2.3	2.3	2.3	2.3	2.3	32.4	64.8	114.5
152.5°	1.2	1.2	1.2	2.3	2.3	2.3	2.3	2.3	3.5	37.0	63.6
155°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	3.5	32.4
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°	1932.0	1932.0	1932.0	1932.0	1932.0	1932.0	1932.0	1932.0	1932.0	1932.0
2.5°	1950.5	1960.9	1965.5	1970.2	1971.3	1972.5	1970.2	1969.0	1960.9	1956.3
5°	2008.3	2033.8	2044.2	2059.2	2060.4	2061.6	2068.5	2065.0	2066.2	2060.4
7.5°	2092.8	2129.8	2146.0	2165.7	2170.3	2176.1	2187.7	2188.8	2187.7	2179.6
10°	2171.5	2202.7	2227.0	2245.5	2252.4	2257.1	2270.9	2274.4	2272.1	2266.3
12.5°	2218.9	2259.4	2283.7	2310.3	2317.2	2324.2	2335.7	2341.5	2334.6	2331.1
15°	2259.4	2302.2	2321.9	2350.8	2351.9	2364.7	2384.3	2386.6	2383.2	2380.9
17.5°	2269.8	2313.8	2342.7	2368.1	2377.4	2385.5	2397.0	2406.3	2407.5	2398.2
20°	2267.5	2309.1	2343.8	2370.4	2380.9	2386.6	2401.7	2408.6	2405.1	2400.5
22.5°	2249.0	2290.6	2325.3	2348.5	2357.7	2367.0	2380.9	2386.6	2386.6	2377.4
25°	2210.8	2252.4	2282.5	2306.8	2314.9	2324.2	2338.0	2341.5	2339.2	2333.4
27.5°	2156.4	2193.4	2223.5	2244.3	2252.4	2260.5	2275.6	2279.0	2274.4	2268.6
30°	2076.6	2114.8	2144.9	2163.4	2170.3	2176.1	2185.3	2193.4	2186.5	2180.7
32.5°	1989.8	2024.5	2045.4	2062.7	2067.3	2072.0	2081.2	2084.7	2077.8	2078.9
35°	1888.0	1918.1	1942.4	1954.0	1956.3	1955.1	1959.7	1960.9	1962.1	1947.0
37.5°	1777.0	1803.6	1815.1	1831.3	1827.9	1833.7	1838.3	1833.7	1822.1	1816.3
40°	1657.8	1675.2	1694.8	1700.6	1697.1	1705.2	1702.9	1694.8	1682.1	1677.5
42.5°	1539.8	1559.5	1566.4	1571.0	1567.6	1568.7	1564.1	1561.8	1549.1	1538.6
45°	1427.6	1441.5	1444.9	1443.8	1443.8	1438.0	1432.2	1423.0	1411.4	1405.6
47.5°	1317.7	1326.9	1328.1	1322.3	1317.7	1310.7	1311.9	1295.7	1281.8	1274.9
50°	1215.9	1219.3	1215.9	1205.5	1203.2	1195.1	1190.4	1177.7	1165.0	1161.5
52.5°	1124.5	1123.3	1116.4	1104.8	1100.2	1092.1	1084.0	1072.4	1059.7	1059.7
55°	1035.4	1031.9	1022.7	1010.0	1003.0	999.5	989.1	976.4	967.1	961.4
57.5°	957.9	951.0	939.4	927.8	918.6	909.3	902.4	893.1	881.5	879.2
60°	888.5	874.6	864.2	851.5	844.5	836.4	827.2	820.2	811.0	801.7
62.5°	823.7	812.1	798.2	785.5	778.6	771.6	762.4	752.0	746.2	743.9
65°	767.0	755.4	739.2	726.5	720.7	713.8	706.9	695.3	691.8	686.0
67.5°	716.1	701.1	686.0	674.5	668.7	666.4	659.4	652.5	644.4	639.8
70°	668.7	653.6	639.8	631.7	624.7	622.4	616.6	607.4	601.6	598.1
72.5°	623.6	610.8	599.3	587.7	583.1	581.9	577.3	570.3	564.6	561.1
75°	585.4	572.7	561.1	555.3	550.7	547.2	544.9	537.9	534.5	528.7
77.5°	551.8	536.8	526.4	520.6	517.1	514.8	512.5	509.0	504.4	500.9
80°	516.0	504.4	496.3	490.5	488.2	485.9	483.6	481.3	477.8	474.3
82.5°	485.9	475.5	468.5	463.9	463.9	461.6	460.4	458.1	454.7	450.0
85°	457.0	447.7	441.9	439.6	438.5	437.3	436.1	433.8	430.4	426.9
87.5°	432.7	425.7	419.9	418.8	418.8	417.6	416.5	415.3	411.8	408.4
90°	416.5	409.5	406.1	404.9	403.8	403.8	403.8	401.4	398.0	394.5
92.5°	414.2	407.2	403.8	401.4	401.4	401.4	401.4	399.1	395.7	391.0
95°	417.6	410.7	407.2	404.9	403.8	403.8	402.6	400.3	396.8	392.2
97.5°	425.7	418.8	414.2	410.7	409.5	409.5	408.4	406.1	402.6	399.1
100°	430.4	423.4	418.8	415.3	414.2	413.0	411.8	409.5	406.1	401.4
102.5°	433.8	426.9	421.1	418.8	417.6	416.5	414.2	411.8	408.4	403.8
105°	436.1	430.4	425.7	421.1	419.9	418.8	416.5	414.2	409.5	406.1
107.5°	439.6	433.8	428.0	424.6	422.3	421.1	418.8	416.5	411.8	407.2
110°	440.8	436.1	430.4	426.9	424.6	423.4	419.9	416.5	411.8	408.4



TEST NUMBER: P232493

CATALOG NUMBER: 8SKB1-LD5-8-W-UNV-L840-CD1-U

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	441.9	438.5	432.7	428.0	426.9	424.6	421.1	417.6	413.0	408.4
115°	441.9	438.5	433.8	429.2	428.0	425.7	422.3	417.6	413.0	408.4
117.5°	440.8	438.5	435.0	430.4	428.0	425.7	422.3	417.6	411.8	408.4
120°	437.3	437.3	433.8	430.4	428.0	425.7	421.1	416.5	411.8	407.2
122.5°	431.5	433.8	431.5	428.0	426.9	424.6	421.1	415.3	409.5	406.1
125°	423.4	429.2	428.0	425.7	424.6	422.3	418.8	414.2	408.4	403.8
127.5°	413.0	421.1	423.4	422.3	421.1	419.9	415.3	410.7	406.1	400.3
130°	400.3	410.7	415.3	415.3	415.3	414.2	411.8	407.2	401.4	396.8
132.5°	384.1	396.8	403.8	407.2	407.2	407.2	404.9	401.4	396.8	391.0
135°	365.6	381.8	391.0	395.7	396.8	396.8	396.8	394.5	389.9	385.2
137.5°	343.6	362.1	374.8	381.8	384.1	385.2	386.4	384.1	379.5	374.8
140°	311.2	337.8	354.0	363.3	365.6	369.0	371.4	369.0	365.6	362.1
142.5°	278.8	306.6	329.7	342.4	344.7	348.2	351.7	351.7	348.2	344.7
145°	244.1	271.9	296.2	317.0	320.5	323.9	328.6	330.9	327.4	323.9
147.5°	203.6	232.5	258.0	281.1	291.5	296.2	300.8	303.1	301.9	298.5
150°	160.8	192.0	216.3	239.5	249.9	263.8	269.6	270.7	269.6	266.1
152.5°	97.2	142.3	170.1	193.2	202.5	215.2	231.4	234.8	232.5	230.2
155°	54.4	74.0	104.1	138.8	149.2	160.8	180.5	188.6	187.4	187.4
157.5°	16.2	40.5	55.5	68.3	72.9	79.8	103.0	122.6	128.4	129.6
160°	1.2	1.2	13.9	27.8	34.7	41.6	53.2	60.2	61.3	62.5
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)