

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: P#

Luminaire Tested: **8SKB1-LD5-6-W-RS-UNV-L840-CD1-RS-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P#  
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-LD5-6-W-RS-UNV-L840-CD1-RS-U  
Description: METALUX SKYBAR 8' WAVESTREAM STRIP  
WITH WIDE LENS AND REFLECTOR  
Light Source: (392) 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

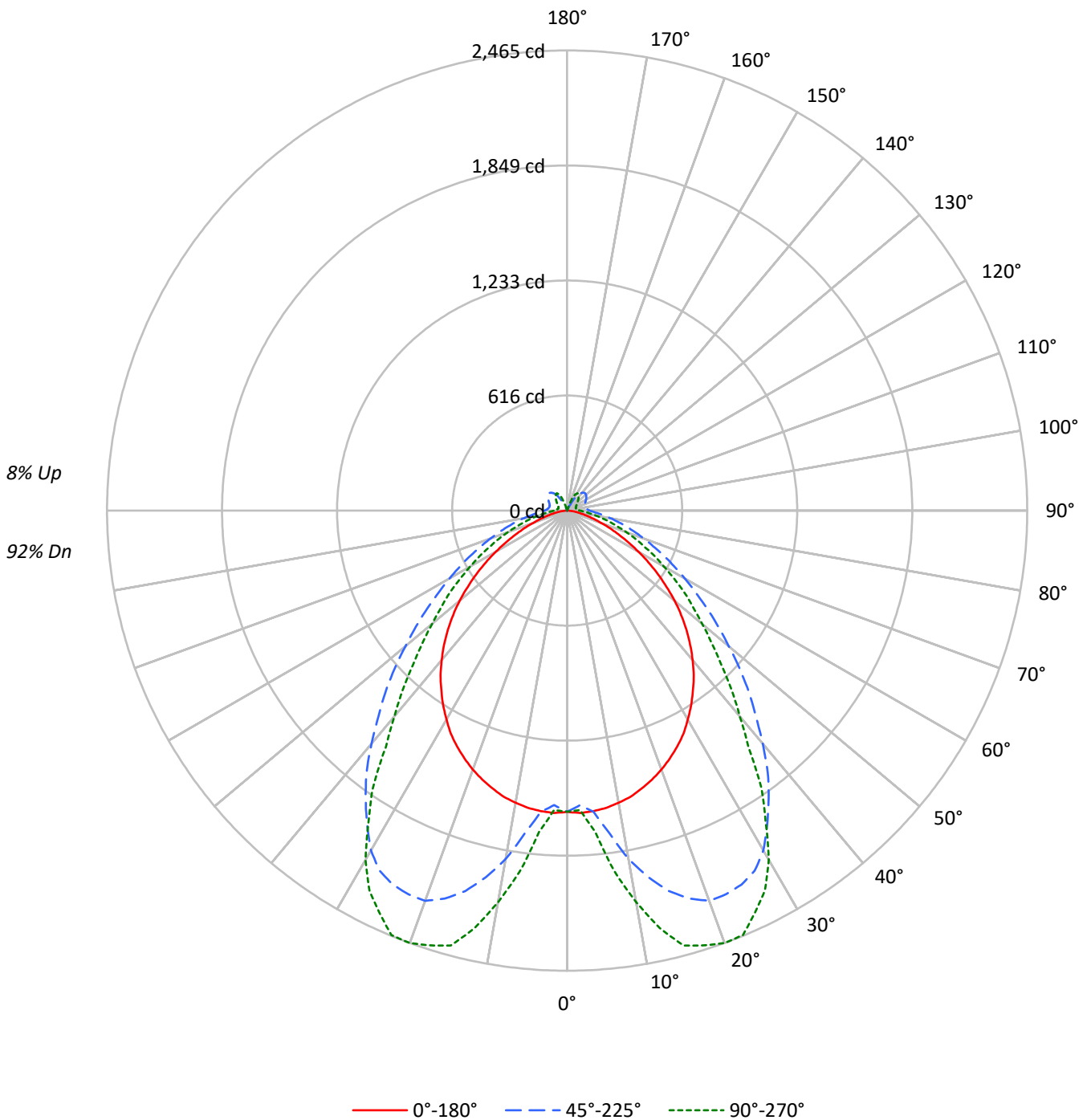
Lumens per Lamp: N/A  
Luminaire Lumens: 5859.0 lumens  
Efficiency: N/A  
Efficacy: 139.5 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.53 / 1.51  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.29')  
CIE Type: Direct

Input Watts (W): 42  
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°	8685	8685	8685
5°	8703	8142	8473
10°	8629	9007	9653
15°	8507	9574	10239
20°	8347	9729	9911
25°	8143	9398	9146
30°	7866	8760	8023
35°	7529	7749	6568
40°	7127	6680	5108
45°	6637	5666	4098
50°	6033	4705	3307
55°	5300	3872	2707
60°	4463	3172	2135
65°	3589	2573	1655
70°	2762	2056	1261
75°	2057	1624	913
80°	1443	1250	647
85°	863	943	443



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	165.2	2.8
10°-20°	574.8	9.8
20°-30°	946.4	16.2
30°-40°	1063.2	18.1
40°-50°	946.2	16.1
50°-60°	731.7	12.5
60°-70°	496.9	8.5
70°-80°	296.5	5.1
80°-90°	159.1	2.7
90°-100°	104.7	1.8
100°-110°	88.8	1.5
110°-120°	82.1	1.4
120°-130°	76.5	1.3
130°-140°	64.9	1.1
140°-150°	44.3	0.8
150°-160°	17.1	0.3
160°-170°	0.5	0.0
170°-180°	0.0	0.0
0°-30°	1686.4	28.8
0°-40°	2749.7	46.9
0°-60°	4427.6	75.6
0°-90°	5380.0	91.8
90°-120°	275.6	4.7
90°-150°	461.3	7.9
90°-180°	479.0	8.2
0°-180°	5859.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1614	1614	1614	1614	1614	
5°	1616	1594	1619	1706	1728	153
15°	1542	1732	2110	2373	2412	435
25°	1394	1791	2210	2384	2378	641
35°	1175	1613	1882	1865	1816	734
45°	904	1246	1378	1260	1166	695
55°	594	849	914	829	769	531
65°	304	528	571	514	455	306
75°	112	318	326	281	235	123
85°	20	200	164	128	103	24
90°	2	170	120	87	67	2
95°	1	165	104	74	56	1
105°	1	150	97	62	48	1
115°	1	138	108	68	53	1
125°	1	113	125	83	65	1
135°	1	44	134	107	84	1
145°	1	4	104	121	104	1
155°	1	2	23	80	89	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P#

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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1613.7	1613.7	1613.7	1613.7	1613.7	1613.7	1613.7	1613.7	1613.7	1613.7	1613.7
2.5°	1621.6	1615.3	1604.2	1603.4	1596.3	1593.1	1593.9	1591.5	1589.2	1585.2	1578.9
5°	1616.1	1604.2	1586.0	1586.0	1589.9	1593.9	1603.4	1612.1	1614.5	1620.0	1619.2
7.5°	1605.8	1587.6	1570.2	1584.4	1598.6	1604.2	1615.3	1631.1	1655.6	1700.7	1745.1
10°	1589.2	1564.6	1559.1	1582.0	1601.0	1617.6	1643.0	1716.6	1784.6	1851.9	1895.4
12.5°	1570.2	1540.1	1548.0	1577.3	1621.6	1653.3	1718.2	1815.5	1869.3	1947.7	2011.8
15°	1541.7	1513.2	1527.4	1570.9	1663.5	1731.6	1768.0	1886.7	1973.0	2037.9	2109.9
17.5°	1510.8	1485.5	1505.3	1582.0	1707.9	1773.5	1832.1	1932.6	2015.7	2111.5	2179.5
20°	1476.8	1454.6	1479.9	1596.3	1729.2	1796.5	1861.4	1957.2	2067.2	2166.1	2224.7
22.5°	1437.2	1417.4	1456.2	1602.6	1737.1	1804.4	1867.7	1979.3	2093.3	2174.8	2224.7
25°	1394.5	1374.7	1427.7	1589.9	1729.2	1791.0	1859.0	1991.2	2084.6	2148.7	2210.4
27.5°	1348.6	1326.4	1406.3	1563.8	1697.6	1767.2	1844.0	1968.2	2041.8	2113.1	2175.6
30°	1292.4	1272.6	1369.1	1525.8	1653.3	1735.6	1801.2	1912.8	1983.3	2053.7	2102.0
32.5°	1236.2	1217.2	1324.0	1472.0	1602.6	1680.2	1743.5	1830.5	1910.5	1965.1	1995.1
35°	1175.2	1153.9	1271.8	1406.3	1545.6	1612.9	1665.9	1745.1	1812.3	1852.7	1882.0
37.5°	1114.3	1091.4	1205.3	1337.5	1470.4	1532.2	1576.5	1656.4	1707.9	1741.1	1765.6
40°	1045.5	1021.7	1136.5	1259.9	1392.1	1435.6	1481.5	1552.7	1590.7	1617.6	1629.5
42.5°	975.8	952.1	1062.1	1178.4	1296.3	1339.1	1386.5	1442.7	1479.9	1495.8	1495.8
45°	903.8	880.8	985.3	1097.7	1197.4	1246.5	1288.4	1333.5	1364.4	1377.1	1377.8
47.5°	828.6	809.6	909.3	1011.4	1104.8	1147.5	1180.0	1223.5	1250.4	1253.6	1252.8
50°	751.8	735.2	824.6	925.2	1008.3	1046.2	1074.7	1115.1	1136.5	1135.7	1131.7
52.5°	671.1	660.8	743.9	835.7	910.9	944.9	970.3	1005.9	1023.3	1023.3	1020.1
55°	594.3	588.0	660.0	748.7	819.1	849.2	872.9	904.6	918.8	918.8	914.1
57.5°	516.8	516.0	583.3	662.4	729.7	756.6	781.9	809.6	822.3	822.3	814.4
60°	440.8	444.8	511.3	584.1	645.8	671.9	694.1	721.0	728.9	730.5	728.9
62.5°	370.4	380.7	444.0	510.5	572.2	594.3	614.1	640.3	646.6	649.0	645.0
65°	303.9	319.7	383.8	447.1	504.9	527.9	545.3	563.5	569.0	571.4	570.6
67.5°	249.3	265.9	330.0	392.5	445.6	463.8	481.2	497.0	497.8	501.8	498.6
70°	193.1	218.4	282.5	341.9	391.7	408.4	422.6	433.7	436.1	436.9	436.1
72.5°	148.8	178.9	239.8	298.4	343.5	359.3	370.4	379.1	379.1	379.9	377.5
75°	112.4	148.8	208.1	262.0	302.3	318.1	326.9	332.4	329.2	328.4	326.1
77.5°	81.5	123.5	179.6	230.3	268.3	280.2	288.1	288.9	284.1	283.3	278.6
80°	56.2	100.5	155.1	202.6	237.4	249.3	253.3	250.1	246.1	241.4	235.0
82.5°	37.2	81.5	134.5	179.6	212.1	221.6	224.8	220.0	214.5	206.6	196.3
85°	19.8	65.7	117.1	160.7	191.5	200.2	201.8	193.1	184.4	174.1	163.8
87.5°	8.7	53.8	104.5	148.0	174.9	181.2	182.0	172.5	161.4	149.6	136.9
90°	1.6	45.9	96.6	138.5	164.6	170.2	170.2	157.5	146.4	133.7	119.5
92.5°	0.8	43.5	94.2	135.3	161.4	167.0	166.2	152.7	139.3	125.0	110.8
95°	0.8	38.0	88.6	132.2	159.1	164.6	163.8	149.6	135.3	120.3	104.5
97.5°	0.8	31.7	83.1	126.6	155.1	160.7	160.7	147.2	133.0	117.1	100.5
100°	0.0	24.5	76.8	121.1	149.6	156.7	157.5	144.8	129.8	114.0	98.1
102.5°	0.0	16.6	71.2	116.3	145.6	152.7	154.3	144.0	128.2	112.4	96.6
105°	0.8	10.3	64.1	110.8	141.7	149.6	152.0	143.2	127.4	112.4	96.6
107.5°	0.8	7.1	57.0	105.3	138.5	147.2	150.4	143.2	128.2	113.2	98.1
110°	0.8	6.3	48.3	99.7	134.5	144.0	148.8	144.0	129.8	115.5	100.5



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	0.8	4.7	36.4	92.6	129.8	140.9	147.2	144.8	132.2	117.9	103.7
115°	0.8	4.0	24.5	85.5	125.0	137.7	145.6	145.6	134.5	121.1	107.6
117.5°	0.8	4.0	16.6	76.0	119.5	133.7	142.5	146.4	137.7	124.3	112.4
120°	0.8	3.2	7.9	64.9	112.4	128.2	139.3	146.4	140.1	128.2	116.3
122.5°	0.8	3.2	6.3	49.9	104.5	121.9	134.5	145.6	142.5	131.4	121.1
125°	0.8	2.4	5.5	33.2	94.2	113.2	128.2	143.2	143.2	134.5	125.0
127.5°	0.8	2.4	4.7	23.7	80.7	103.7	119.5	139.3	143.2	136.9	129.0
130°	0.8	2.4	4.0	7.1	61.7	90.2	109.2	133.0	141.7	138.5	131.4
132.5°	0.8	1.6	4.0	5.5	39.6	70.4	95.0	122.7	136.9	138.5	133.7
135°	0.8	1.6	3.2	4.7	28.5	43.5	76.0	110.0	128.2	133.7	133.7
137.5°	0.8	1.6	3.2	4.0	12.7	32.4	47.5	95.0	117.1	127.4	129.8
140°	0.8	1.6	2.4	3.2	4.7	17.4	34.0	75.2	103.7	117.9	124.3
142.5°	0.8	1.6	2.4	3.2	4.0	4.0	20.6	43.5	87.1	105.3	115.5
145°	0.8	1.6	1.6	2.4	3.2	4.0	4.0	33.2	62.5	90.2	103.7
147.5°	0.8	0.8	1.6	2.4	3.2	3.2	3.2	15.0	37.2	68.9	88.6
150°	0.8	0.8	1.6	1.6	2.4	2.4	3.2	3.2	24.5	38.8	65.7
152.5°	0.8	0.8	1.6	1.6	2.4	2.4	2.4	3.2	3.2	26.1	36.4
155°	0.8	0.8	1.6	1.6	1.6	2.4	2.4	2.4	2.4	3.2	23.0
157.5°	0.8	0.8	1.6	1.6	1.6	1.6	1.6	2.4	2.4	3.2	3.2
160°	0.8	1.6	1.6	1.6	1.6	1.6	1.6	2.4	2.4	2.4	3.2
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°	1613.7	1613.7	1613.7	1613.7	1613.7	1613.7	1613.7	1613.7	1613.7	1613.7
2.5°	1586.8	1598.6	1598.6	1608.9	1614.5	1612.9	1614.5	1617.6	1608.1	1605.0
5°	1636.6	1660.4	1672.2	1699.2	1705.5	1717.4	1721.3	1734.8	1737.9	1728.4
7.5°	1793.3	1842.4	1874.1	1906.5	1920.8	1927.9	1940.5	1949.2	1962.7	1952.4
10°	1940.5	1999.9	2045.0	2080.6	2089.3	2096.4	2111.5	2132.8	2131.3	2129.7
12.5°	2068.0	2120.2	2175.6	2227.0	2253.1	2258.7	2280.8	2307.0	2311.7	2290.3
15°	2173.2	2246.0	2308.5	2363.1	2373.4	2387.7	2404.3	2413.0	2409.1	2412.2
17.5°	2261.1	2322.8	2367.1	2396.4	2402.7	2413.8	2428.8	2439.9	2441.5	2442.3
20°	2295.9	2337.0	2379.8	2420.1	2432.8	2443.9	2462.1	2471.6	2470.0	2465.2
22.5°	2289.5	2349.7	2389.3	2422.5	2435.2	2445.5	2461.3	2467.6	2465.2	2460.5
25°	2280.1	2331.5	2366.3	2383.7	2383.7	2391.6	2387.7	2382.9	2377.4	2378.2
27.5°	2234.9	2265.0	2288.8	2308.5	2310.9	2311.7	2309.3	2304.6	2301.4	2294.3
30°	2143.1	2179.5	2190.6	2189.0	2185.9	2185.1	2175.6	2168.5	2159.8	2160.5
32.5°	2035.5	2043.4	2048.2	2034.7	2026.8	2025.2	2016.5	2004.6	1992.8	1980.1
35°	1897.0	1891.5	1880.4	1870.9	1864.6	1855.1	1842.4	1830.5	1815.5	1816.3
37.5°	1763.3	1745.8	1730.0	1703.9	1699.2	1677.0	1652.5	1633.5	1608.9	1595.5
40°	1624.0	1606.6	1586.8	1558.3	1545.6	1525.0	1498.1	1466.5	1446.7	1438.8
42.5°	1491.0	1469.6	1446.7	1412.7	1396.8	1380.2	1351.7	1320.9	1306.6	1304.2
45°	1361.2	1336.7	1314.5	1276.5	1259.9	1240.1	1210.9	1191.9	1171.3	1166.5
47.5°	1236.2	1214.8	1180.8	1151.5	1135.7	1119.1	1089.0	1071.6	1056.5	1051.0
50°	1115.1	1094.5	1068.4	1036.0	1020.9	1005.1	983.7	967.1	949.7	944.2
52.5°	1006.7	986.1	959.2	933.9	918.8	909.3	889.5	870.6	857.1	848.4
55°	902.2	883.2	858.7	834.9	829.4	816.7	793.8	777.2	768.5	769.3
57.5°	806.4	789.8	770.8	747.9	739.2	727.3	712.3	692.5	682.2	679.0
60°	719.4	703.6	687.7	670.3	659.2	650.5	630.0	614.1	600.7	599.1
62.5°	636.3	624.4	611.0	593.6	584.1	574.6	556.4	541.3	531.0	527.9
65°	564.3	554.0	538.2	523.9	514.4	504.9	487.5	472.5	463.8	455.1
67.5°	493.0	484.3	472.5	457.4	448.7	439.2	424.2	407.6	397.3	394.9
70°	429.7	420.2	410.7	394.9	387.0	381.5	364.8	348.2	340.3	337.1
72.5°	375.1	364.8	351.4	340.3	335.6	325.3	309.4	298.4	288.1	281.7
75°	318.1	311.8	302.3	289.7	281.0	273.8	261.2	250.1	241.4	235.0
77.5°	271.5	263.5	255.6	243.0	236.6	230.3	216.8	207.3	198.6	195.5
80°	227.9	220.8	209.7	200.2	194.7	189.1	178.9	168.6	162.2	159.1
82.5°	188.4	182.0	173.3	165.4	159.1	155.1	145.6	136.9	131.4	126.6
85°	155.9	148.0	140.1	133.0	128.2	125.0	117.9	111.6	104.5	102.9
87.5°	128.2	121.9	114.8	107.6	104.5	100.5	94.2	89.4	83.9	81.5
90°	110.0	102.1	95.8	90.2	87.1	84.7	79.9	73.6	69.6	67.3
92.5°	99.7	92.6	87.1	81.5	79.1	76.8	71.2	66.5	62.5	59.4
95°	93.4	86.3	80.7	76.0	73.6	72.0	67.3	62.5	58.6	56.2
97.5°	88.6	80.7	75.2	71.2	68.9	67.3	63.3	59.4	55.4	53.0
100°	84.7	76.8	71.2	67.3	65.7	64.1	60.1	56.2	53.0	50.7
102.5°	83.1	74.4	68.9	65.7	64.1	62.5	58.6	55.4	51.4	49.1
105°	83.1	73.6	68.1	64.1	62.5	60.9	57.8	54.6	50.7	48.3
107.5°	84.7	74.4	68.1	64.9	63.3	61.7	57.8	54.6	50.7	48.3
110°	87.1	76.8	69.6	65.7	64.1	62.5	58.6	55.4	51.4	49.1





TEST NUMBER: P#

CATALOG NUMBER: 8SKB1-LD5-6-W-RS-UNV-L840-CD1-RS-U

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	90.2	79.1	72.0	67.3	65.7	64.1	60.1	57.0	53.0	50.7
115°	94.2	82.3	75.2	69.6	68.1	66.5	62.5	58.6	55.4	53.0
117.5°	98.9	87.1	78.3	72.8	71.2	68.9	64.9	60.9	57.8	55.4
120°	103.7	92.6	83.1	76.8	74.4	72.0	68.1	64.1	60.1	57.8
122.5°	109.2	97.3	87.8	81.5	79.1	76.8	72.0	68.1	64.1	60.9
125°	114.8	103.7	93.4	86.3	83.1	80.7	76.0	71.2	68.1	64.9
127.5°	119.5	109.2	98.9	91.8	88.6	85.5	80.7	76.0	72.0	69.6
130°	123.5	114.8	105.3	97.3	94.2	91.8	85.5	80.7	76.8	74.4
132.5°	127.4	119.5	111.6	103.7	100.5	97.3	91.8	86.3	82.3	79.1
135°	129.8	123.5	117.1	110.0	106.8	102.9	97.3	91.8	87.1	83.9
137.5°	129.8	126.6	121.1	115.5	112.4	109.2	102.9	97.3	92.6	90.2
140°	125.8	126.6	124.3	120.3	117.1	114.8	109.2	102.9	98.1	95.8
142.5°	120.3	122.7	124.3	121.9	120.3	118.7	114.0	108.4	103.7	100.5
145°	111.6	116.3	119.5	121.9	121.1	120.3	116.3	112.4	107.6	104.5
147.5°	100.5	107.6	111.6	117.1	118.7	118.7	117.1	114.0	110.0	107.6
150°	84.7	95.0	102.1	107.6	110.0	113.2	113.2	110.8	108.4	106.0
152.5°	60.1	76.8	87.1	95.0	98.1	101.3	105.3	103.7	100.5	98.9
155°	34.0	41.9	63.3	76.0	79.9	83.9	90.2	91.8	91.0	88.6
157.5°	17.4	28.5	35.6	41.2	43.5	49.9	62.5	71.2	70.4	72.0
160°	4.0	4.7	13.5	25.3	28.5	30.1	33.2	35.6	35.6	34.0
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)