

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: P232505

Luminaire Tested: **8SKB1-LD5-16-W-UNV-L840-CD2-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P232505
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-LD5-16-W-UNV-L840-CD2-U
Description: METALUX SKYBAR 8' WAVESTREAM STRIP
WITH WIDE LENS
Light Source: (476) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16174.0 lumens
Efficiency: N/A
Efficacy: 123.9 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

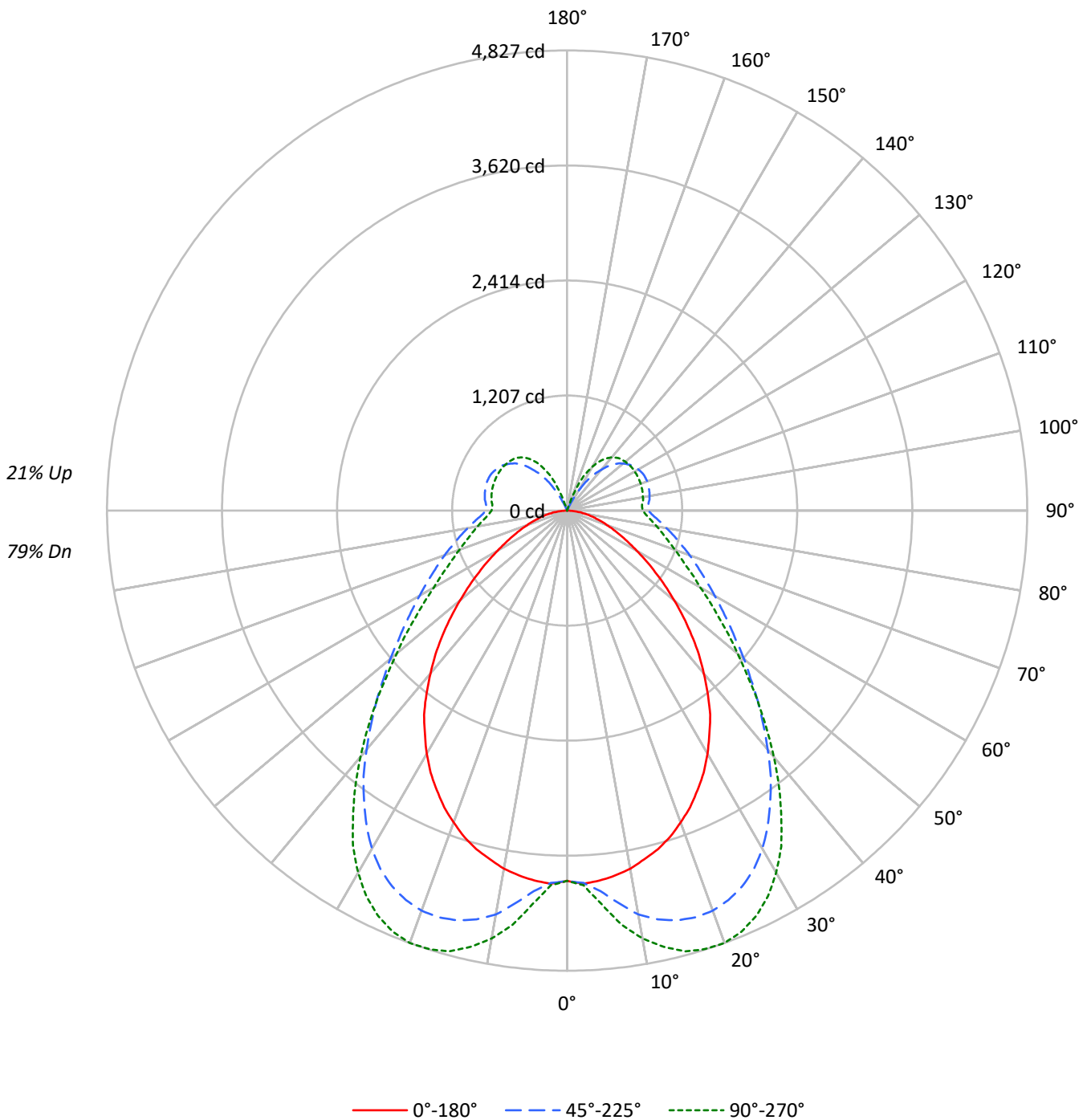
Input Watts (W): 130.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	20907	20907	20907
5°	20983	20141	20309
10°	20715	20450	20654
15°	20293	20191	20321
20°	19683	19532	19404
25°	18893	18484	18044
30°	17924	17071	16282
35°	16765	15295	14157
40°	15191	13416	11974
45°	13546	11633	9928
50°	11759	10077	8180
55°	10062	8770	6803
60°	8526	7784	5744
65°	7308	7016	5016
70°	6388	6449	4500
75°	5577	5967	4128
80°	4780	5619	3881
85°	3548	5411	3697



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	392.1	2.4
10°-20°	1233.0	7.6
20°-30°	1932.2	11.9
30°-40°	2212.6	13.7
40°-50°	2037.8	12.6
50°-60°	1672.4	10.3
60°-70°	1337.1	8.3
70°-80°	1074.1	6.6
80°-90°	854.3	5.3
90°-100°	763.6	4.7
100°-110°	743.7	4.6
110°-120°	674.0	4.2
120°-130°	557.1	3.4
130°-140°	399.6	2.5
140°-150°	222.0	1.4
150°-160°	66.8	0.4
160°-170°	1.5	0.0
170°-180°	0.0	0.0
0°-30°	3557.3	22.0
0°-40°	5769.8	35.7
0°-60°	9480.1	58.6
0°-90°	12745.7	78.8
90°-120°	2181.4	13.5
90°-150°	3360.0	20.8
90°-180°	3428.0	21.2
0°-180°	16174.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3885	3885	3885	3885	3885	
5°	3896	3936	4006	4143	4143	369
15°	3678	4050	4450	4729	4787	1034
25°	3236	3852	4348	4655	4692	1488
35°	2617	3254	3715	3934	3915	1625
45°	1845	2456	2829	2903	2826	1423
55°	1128	1766	2070	2017	1933	1017
65°	619	1296	1556	1449	1379	621
75°	305	986	1198	1107	1063	327
85°	81	747	940	882	858	89
90°	5	663	851	812	793	6
95°	2	658	856	812	789	2
105°	2	644	889	844	816	2
115°	2	582	886	861	821	2
125°	2	454	826	854	812	2
135°	2	165	686	798	775	2
145°	2	7	421	644	651	1
155°	2	2	65	300	377	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°	3884.6	3884.6	3884.6	3884.6	3884.6	3884.6	3884.6	3884.6	3884.6	3884.6	3884.6
2.5°	3917.2	3900.9	3889.3	3900.9	3905.6	3910.2	3921.8	3919.5	3921.8	3917.2	3910.2
5°	3896.3	3882.3	3877.6	3900.9	3924.2	3935.8	3952.1	3968.4	3982.3	4000.9	4005.6
7.5°	3861.4	3854.4	3859.0	3900.9	3938.1	3966.0	3989.3	4031.2	4073.0	4114.9	4154.5
10°	3814.8	3810.2	3831.1	3893.9	3954.4	3994.0	4033.5	4110.3	4182.4	4247.5	4303.3
12.5°	3745.1	3756.7	3791.6	3875.3	3970.7	4026.5	4089.3	4184.7	4261.5	4335.9	4391.7
15°	3677.6	3684.6	3752.0	3852.1	3963.7	4049.8	4114.9	4235.9	4315.0	4391.7	4449.9
17.5°	3589.2	3605.5	3679.9	3821.8	3959.1	4035.8	4114.9	4210.3	4305.7	4394.0	4473.1
20°	3482.2	3517.1	3617.1	3773.0	3928.8	4005.6	4075.4	4191.7	4289.4	4375.4	4466.2
22.5°	3368.2	3407.8	3519.4	3705.5	3866.0	3942.8	4010.2	4138.2	4238.2	4324.3	4422.0
25°	3235.6	3286.8	3419.4	3619.4	3773.0	3852.1	3924.2	4054.4	4159.1	4245.2	4347.5
27.5°	3100.7	3158.9	3303.1	3505.5	3663.6	3738.1	3812.5	3942.8	4047.5	4133.5	4240.5
30°	2944.9	3007.7	3170.5	3365.9	3521.7	3603.2	3670.6	3798.6	3912.5	3989.3	4096.3
32.5°	2777.4	2849.5	3024.0	3212.4	3368.2	3445.0	3512.4	3635.7	3738.1	3819.5	3917.2
35°	2616.9	2675.0	2851.8	3035.6	3184.5	3254.2	3333.3	3452.0	3542.7	3626.4	3714.8
37.5°	2423.8	2493.6	2672.7	2847.2	2996.0	3070.5	3135.6	3244.9	3328.7	3407.8	3507.8
40°	2228.4	2305.2	2491.3	2647.1	2800.7	2858.8	2923.9	3024.0	3103.0	3200.7	3272.9
42.5°	2044.7	2116.8	2293.6	2451.7	2596.0	2654.1	2716.9	2821.6	2889.0	2972.8	3044.9
45°	1844.6	1919.1	2107.5	2256.3	2393.6	2456.4	2521.5	2607.6	2684.3	2751.8	2828.6
47.5°	1653.9	1742.3	1923.7	2063.3	2202.8	2261.0	2316.8	2407.5	2484.3	2556.4	2609.9
50°	1465.5	1560.8	1737.6	1888.8	2021.4	2079.6	2135.4	2226.1	2305.2	2368.0	2423.8
52.5°	1293.3	1393.3	1574.8	1733.0	1851.6	1912.1	1967.9	2056.3	2135.4	2193.5	2230.8
55°	1128.2	1239.8	1428.2	1581.8	1700.4	1765.5	1809.7	1902.8	1981.9	2035.4	2070.2
57.5°	983.9	1107.2	1286.3	1444.5	1567.8	1626.0	1679.5	1767.9	1842.3	1893.5	1921.4
60°	842.1	979.3	1165.4	1318.9	1444.5	1500.3	1558.5	1646.9	1716.7	1763.2	1788.8
62.5°	723.4	867.6	1060.7	1209.6	1337.5	1393.3	1444.5	1532.9	1600.4	1646.9	1667.8
65°	618.7	769.9	965.3	1114.2	1237.5	1295.7	1349.2	1439.9	1502.7	1546.9	1556.2
67.5°	528.0	681.6	879.3	1025.8	1153.8	1207.3	1260.8	1351.5	1412.0	1449.2	1456.2
70°	446.6	602.5	800.2	946.7	1072.3	1130.5	1184.0	1265.4	1328.2	1358.5	1367.8
72.5°	372.2	535.0	725.8	876.9	1002.6	1056.1	1107.2	1193.3	1251.5	1279.4	1277.0
75°	304.7	472.2	662.9	811.8	930.4	986.3	1037.5	1121.2	1179.3	1202.6	1198.0
77.5°	246.6	418.7	602.5	746.7	867.6	923.5	970.0	1053.7	1107.2	1132.8	1128.2
80°	186.1	360.5	544.3	686.2	807.2	858.3	909.5	988.6	1042.1	1067.7	1056.1
82.5°	134.9	307.0	490.8	630.4	749.0	802.5	849.0	930.4	981.6	1002.6	995.6
85°	81.4	253.5	432.7	576.9	695.5	746.7	797.9	874.6	925.8	946.7	939.8
87.5°	34.9	204.7	383.8	528.0	646.7	697.8	746.7	823.4	872.3	893.2	886.3
90°	4.7	172.1	353.6	495.5	611.8	662.9	711.8	788.6	837.4	858.3	851.4
92.5°	2.3	165.2	344.3	486.2	602.5	656.0	702.5	781.6	832.8	851.4	849.0
95°	2.3	153.5	339.6	486.2	604.8	658.3	707.1	786.2	837.4	858.3	856.0
97.5°	2.3	137.2	332.6	483.8	607.1	662.9	711.8	795.5	849.0	872.3	870.0
100°	2.3	111.7	318.7	476.9	602.5	660.6	709.5	795.5	851.4	876.9	876.9
102.5°	2.3	76.8	302.4	465.2	597.8	653.6	704.8	793.2	851.4	879.3	883.9
105°	2.3	46.5	281.5	451.3	586.2	644.3	697.8	788.6	849.0	881.6	888.6
107.5°	2.3	30.2	255.9	435.0	574.6	635.0	688.5	781.6	844.4	881.6	890.9
110°	2.3	25.6	223.3	416.4	558.3	618.7	674.6	772.3	837.4	879.3	893.2



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	2.3	20.9	172.1	390.8	539.7	602.5	660.6	756.0	828.1	870.0	890.9
115°	2.3	16.3	111.7	360.5	516.4	581.5	639.7	739.7	811.8	860.7	886.3
117.5°	2.3	14.0	72.1	325.7	490.8	555.9	616.4	718.8	795.5	846.7	876.9
120°	2.3	11.6	30.2	279.1	458.2	528.0	588.5	690.9	772.3	828.1	863.0
122.5°	2.3	9.3	23.3	209.4	421.0	493.1	555.9	662.9	744.4	807.2	844.4
125°	2.3	9.3	18.6	134.9	374.5	453.6	521.1	630.4	716.4	781.6	825.8
127.5°	2.3	7.0	16.3	90.7	318.7	407.1	479.2	593.2	681.6	749.0	797.9
130°	2.3	7.0	14.0	39.5	237.3	348.9	428.0	549.0	642.0	714.1	767.6
132.5°	2.3	4.7	11.6	16.3	146.5	269.8	362.9	493.1	595.5	672.2	732.7
135°	2.3	4.7	9.3	14.0	97.7	165.2	283.8	430.3	535.0	616.4	686.2
137.5°	2.3	4.7	7.0	11.6	39.5	109.3	174.5	360.5	469.9	555.9	628.1
140°	2.3	4.7	7.0	9.3	11.6	51.2	118.6	274.5	397.8	490.8	560.6
142.5°	2.3	4.7	7.0	7.0	9.3	11.6	58.2	160.5	318.7	418.7	495.5
145°	2.3	2.3	4.7	7.0	7.0	7.0	9.3	109.3	207.0	339.6	421.0
147.5°	2.3	2.3	4.7	4.7	7.0	7.0	7.0	44.2	127.9	239.6	339.6
150°	2.3	2.3	4.7	4.7	4.7	4.7	4.7	4.7	65.1	130.3	230.3
152.5°	2.3	2.3	2.3	4.7	4.7	4.7	4.7	4.7	7.0	74.4	127.9
155°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	7.0	65.1
157.5°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
160°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
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°	3884.6	3884.6	3884.6	3884.6	3884.6	3884.6	3884.6	3884.6	3884.6	3884.6
2.5°	3921.8	3942.8	3952.1	3961.4	3963.7	3966.0	3961.4	3959.1	3942.8	3933.5
5°	4038.1	4089.3	4110.3	4140.5	4142.8	4145.2	4159.1	4152.1	4154.5	4142.8
7.5°	4208.0	4282.4	4315.0	4354.5	4363.8	4375.4	4398.7	4401.0	4398.7	4382.4
10°	4366.1	4428.9	4477.8	4515.0	4529.0	4538.3	4566.2	4573.2	4568.5	4556.9
12.5°	4461.5	4542.9	4591.8	4645.3	4659.2	4673.2	4696.4	4708.1	4694.1	4687.1
15°	4542.9	4629.0	4668.5	4726.7	4729.0	4754.6	4794.1	4798.8	4791.8	4787.2
17.5°	4563.9	4652.2	4710.4	4761.6	4780.2	4796.5	4819.7	4838.3	4840.7	4822.1
20°	4559.2	4642.9	4712.7	4766.2	4787.2	4798.8	4829.0	4843.0	4836.0	4826.7
22.5°	4522.0	4605.7	4675.5	4722.0	4740.6	4759.2	4787.2	4798.8	4798.8	4780.2
25°	4445.2	4529.0	4589.4	4638.3	4654.6	4673.2	4701.1	4708.1	4703.4	4691.8
27.5°	4335.9	4410.3	4470.8	4512.7	4529.0	4545.2	4575.5	4582.5	4573.2	4561.5
30°	4175.4	4252.2	4312.6	4349.8	4363.8	4375.4	4394.0	4410.3	4396.4	4384.7
32.5°	4000.9	4070.7	4112.6	4147.5	4156.8	4166.1	4184.7	4191.7	4177.7	4180.0
35°	3796.2	3856.7	3905.6	3928.8	3933.5	3931.1	3940.5	3942.8	3945.1	3914.9
37.5°	3572.9	3626.4	3649.7	3682.3	3675.3	3686.9	3696.2	3686.9	3663.6	3652.0
40°	3333.3	3368.2	3407.8	3419.4	3412.4	3428.7	3424.1	3407.8	3382.2	3372.9
42.5°	3096.1	3135.6	3149.6	3158.9	3151.9	3154.2	3144.9	3140.3	3114.7	3093.7
45°	2870.4	2898.3	2905.3	2903.0	2903.0	2891.4	2879.7	2861.1	2837.9	2826.2
47.5°	2649.5	2668.1	2670.4	2658.8	2649.5	2635.5	2637.8	2605.3	2577.3	2563.4
50°	2444.8	2451.7	2444.8	2423.8	2419.2	2402.9	2393.6	2368.0	2342.4	2335.4
52.5°	2261.0	2258.7	2244.7	2221.4	2212.1	2195.9	2179.6	2156.3	2130.7	2130.7
55°	2081.9	2074.9	2056.3	2030.7	2016.7	2009.8	1988.8	1963.2	1944.6	1933.0
57.5°	1926.0	1912.1	1888.8	1865.6	1846.9	1828.3	1814.4	1795.8	1772.5	1767.9
60°	1786.5	1758.5	1737.6	1712.0	1698.1	1681.8	1663.2	1649.2	1630.6	1612.0
62.5°	1656.2	1632.9	1605.0	1579.4	1565.5	1551.5	1532.9	1512.0	1500.3	1495.7
65°	1542.2	1519.0	1486.4	1460.8	1449.2	1435.2	1421.3	1398.0	1391.0	1379.4
67.5°	1439.9	1409.6	1379.4	1356.1	1344.5	1339.8	1325.9	1311.9	1295.7	1286.3
70°	1344.5	1314.3	1286.3	1270.1	1256.1	1251.5	1239.8	1221.2	1209.6	1202.6
72.5°	1253.8	1228.2	1204.9	1181.7	1172.4	1170.0	1160.7	1146.8	1135.1	1128.2
75°	1177.0	1151.4	1128.2	1116.5	1107.2	1100.3	1095.6	1081.6	1074.7	1063.0
77.5°	1109.6	1079.3	1058.4	1046.8	1039.8	1035.1	1030.5	1023.5	1014.2	1007.2
80°	1037.5	1014.2	997.9	986.3	981.6	977.0	972.3	967.7	960.7	953.7
82.5°	977.0	956.0	942.1	932.8	932.8	928.1	925.8	921.1	914.2	904.9
85°	918.8	900.2	888.6	883.9	881.6	879.3	876.9	872.3	865.3	858.3
87.5°	870.0	856.0	844.4	842.1	842.1	839.7	837.4	835.1	828.1	821.1
90°	837.4	823.4	816.5	814.1	811.8	811.8	811.8	807.2	800.2	793.2
92.5°	832.8	818.8	811.8	807.2	807.2	807.2	807.2	802.5	795.5	786.2
95°	839.7	825.8	818.8	814.1	811.8	811.8	809.5	804.8	797.9	788.6
97.5°	856.0	842.1	832.8	825.8	823.4	823.4	821.1	816.5	809.5	802.5
100°	865.3	851.4	842.1	835.1	832.8	830.4	828.1	823.4	816.5	807.2
102.5°	872.3	858.3	846.7	842.1	839.7	837.4	832.8	828.1	821.1	811.8
105°	876.9	865.3	856.0	846.7	844.4	842.1	837.4	832.8	823.4	816.5
107.5°	883.9	872.3	860.7	853.7	849.0	846.7	842.1	837.4	828.1	818.8
110°	886.3	876.9	865.3	858.3	853.7	851.4	844.4	837.4	828.1	821.1



TEST NUMBER: P232505

CATALOG NUMBER: 8SKB1-LD5-16-W-UNV-L840-CD2-U

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	888.6	881.6	870.0	860.7	858.3	853.7	846.7	839.7	830.4	821.1
115°	888.6	881.6	872.3	863.0	860.7	856.0	849.0	839.7	830.4	821.1
117.5°	886.3	881.6	874.6	865.3	860.7	856.0	849.0	839.7	828.1	821.1
120°	879.3	879.3	872.3	865.3	860.7	856.0	846.7	837.4	828.1	818.8
122.5°	867.6	872.3	867.6	860.7	858.3	853.7	846.7	835.1	823.4	816.5
125°	851.4	863.0	860.7	856.0	853.7	849.0	842.1	832.8	821.1	811.8
127.5°	830.4	846.7	851.4	849.0	846.7	844.4	835.1	825.8	816.5	804.8
130°	804.8	825.8	835.1	835.1	835.1	832.8	828.1	818.8	807.2	797.9
132.5°	772.3	797.9	811.8	818.8	818.8	818.8	814.1	807.2	797.9	786.2
135°	735.1	767.6	786.2	795.5	797.9	797.9	797.9	793.2	783.9	774.6
137.5°	690.9	728.1	753.7	767.6	772.3	774.6	776.9	772.3	763.0	753.7
140°	625.7	679.2	711.8	730.4	735.1	742.0	746.7	742.0	735.1	728.1
142.5°	560.6	616.4	662.9	688.5	693.2	700.2	707.1	707.1	700.2	693.2
145°	490.8	546.6	595.5	637.4	644.3	651.3	660.6	665.3	658.3	651.3
147.5°	409.4	467.6	518.7	565.2	586.2	595.5	604.8	609.4	607.1	600.1
150°	323.3	386.1	435.0	481.5	502.4	530.4	542.0	544.3	542.0	535.0
152.5°	195.4	286.1	341.9	388.5	407.1	432.7	465.2	472.2	467.6	462.9
155°	109.3	148.9	209.4	279.1	300.1	323.3	362.9	379.2	376.8	376.8
157.5°	32.6	81.4	111.7	137.2	146.5	160.5	207.0	246.6	258.2	260.5
160°	2.3	2.3	27.9	55.8	69.8	83.7	107.0	121.0	123.3	125.6
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)