

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-LD5-16-W-RS-UNV-L840-CD2-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-LD5-16-W-RS-UNV-L840-CD2-RS-U
Description: METALUX SKYBAR 8' WAVESTREAM STRIP
WITH WIDE LENS AND REFLECTOR
Light Source: (476) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

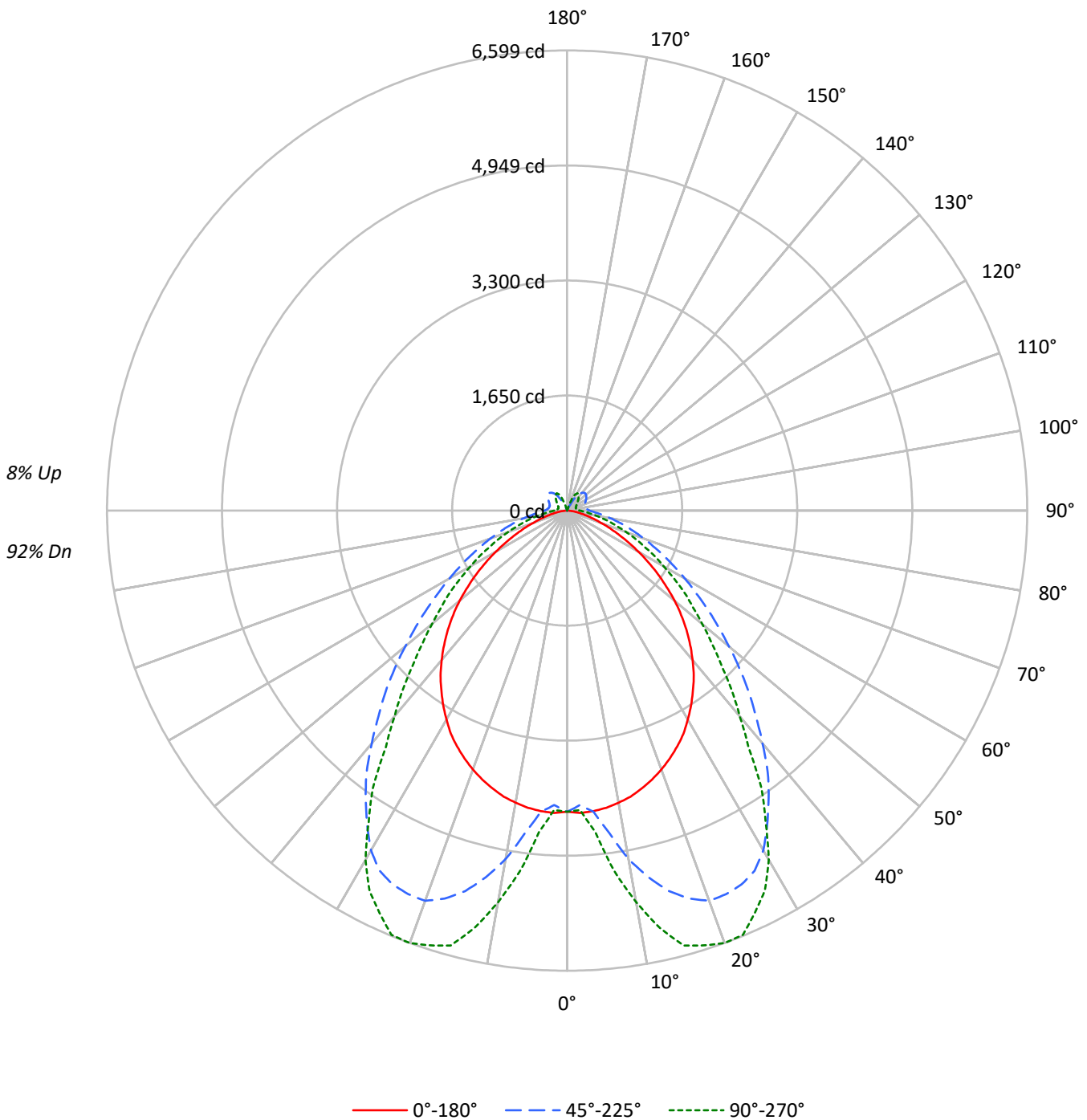
Lumens per Lamp: N/A
Luminaire Lumens: 15683.0 lumens
Efficiency: N/A
Efficacy: 120.2 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.53 / 1.51
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.29')
CIE Type: Direct

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	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°	23247	23247	23247
5°	23296	21793	22680
10°	23098	24110	25838
15°	22770	25626	27408
20°	22343	26041	26528
25°	21795	25156	24483
30°	21055	23448	21475
35°	20154	20741	17580
40°	19077	17880	13672
45°	17765	15167	10969
50°	16149	12594	8852
55°	14189	10365	7247
60°	11946	8490	5714
65°	9608	6887	4430
70°	7393	5503	3377
75°	5506	4347	2444
80°	3863	3348	1733
85°	2310	2525	1186



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	442.2	2.8
10°-20°	1538.7	9.8
20°-30°	2533.3	16.2
30°-40°	2846.0	18.1
40°-50°	2532.6	16.1
50°-60°	1958.6	12.5
60°-70°	1330.0	8.5
70°-80°	793.7	5.1
80°-90°	425.7	2.7
90°-100°	280.2	1.8
100°-110°	237.6	1.5
110°-120°	219.9	1.4
120°-130°	204.8	1.3
130°-140°	173.7	1.1
140°-150°	118.6	0.8
150°-160°	45.8	0.3
160°-170°	1.4	0.0
170°-180°	0.0	0.0
0°-30°	4514.2	28.8
0°-40°	7360.2	46.9
0°-60°	11851.4	75.6
0°-90°	14400.9	91.8
90°-120°	737.7	4.7
90°-150°	1234.8	7.9
90°-180°	1282.0	8.2
0°-180°	15683.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4319	4319	4319	4319	4319	
5°	4326	4266	4334	4565	4627	411
15°	4127	4635	5648	6353	6457	1163
25°	3733	4794	5917	6381	6366	1717
35°	3146	4317	5038	4991	4862	1965
45°	2419	3336	3688	3372	3122	1861
55°	1591	2273	2447	2220	2059	1421
65°	814	1413	1527	1377	1218	820
75°	301	852	873	752	629	329
85°	53	536	438	343	275	65
90°	4	456	320	233	180	5
95°	2	441	280	197	150	1
105°	2	400	258	167	129	1
115°	2	369	288	182	142	2
125°	2	303	335	222	174	2
135°	2	116	358	286	224	2
145°	2	11	278	324	280	1
155°	2	6	61	214	237	1
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°	4319.4	4319.4	4319.4	4319.4	4319.4	4319.4	4319.4	4319.4	4319.4	4319.4	4319.4
2.5°	4340.6	4323.6	4294.0	4291.9	4272.8	4264.3	4266.4	4260.1	4253.7	4243.1	4226.2
5°	4325.8	4294.0	4245.3	4245.3	4255.9	4266.4	4291.9	4315.2	4321.5	4336.4	4334.2
7.5°	4298.2	4249.5	4202.9	4241.0	4279.2	4294.0	4323.6	4366.0	4431.7	4552.4	4671.1
10°	4253.7	4188.1	4173.2	4234.7	4285.5	4330.0	4397.8	4594.8	4777.0	4957.0	5073.6
12.5°	4202.9	4122.4	4143.6	4222.0	4340.6	4425.3	4599.0	4859.6	5003.6	5213.4	5385.0
15°	4126.6	4050.4	4088.5	4205.0	4452.9	4635.0	4732.5	5050.3	5281.2	5454.9	5647.6
17.5°	4044.0	3976.2	4029.2	4234.7	4571.5	4747.3	4904.1	5173.1	5395.6	5651.9	5834.1
20°	3952.9	3893.6	3961.4	4272.8	4628.7	4808.8	4982.5	5238.8	5533.2	5798.0	5954.8
22.5°	3847.0	3794.0	3897.8	4289.8	4649.9	4829.9	4999.4	5298.1	5603.2	5821.4	5954.8
25°	3732.6	3679.7	3821.6	4255.9	4628.7	4793.9	4976.1	5329.9	5579.9	5751.4	5916.7
27.5°	3609.7	3550.4	3764.4	4185.9	4544.0	4730.4	4935.9	5268.4	5465.5	5656.1	5823.5
30°	3459.3	3406.4	3664.8	4084.3	4425.3	4645.6	4821.5	5120.2	5308.7	5497.2	5626.5
32.5°	3308.9	3258.1	3544.1	3940.2	4289.8	4497.4	4666.8	4899.8	5113.8	5260.0	5340.5
35°	3145.8	3088.6	3404.3	3764.4	4137.2	4317.3	4459.2	4671.1	4851.1	4959.2	5037.5
37.5°	2982.7	2921.3	3226.3	3580.1	3936.0	4101.2	4219.8	4433.8	4571.5	4660.5	4726.1
40°	2798.4	2734.8	3042.0	3372.5	3726.3	3842.8	3965.6	4156.3	4258.0	4330.0	4361.8
42.5°	2612.0	2548.4	2842.9	3154.3	3469.9	3584.3	3711.4	3861.8	3961.4	4003.8	4003.8
45°	2419.2	2357.8	2637.4	2938.2	3205.1	3336.5	3448.7	3569.5	3652.1	3686.0	3688.1
47.5°	2218.0	2167.1	2434.0	2707.3	2957.3	3071.7	3158.5	3275.0	3347.1	3355.5	3353.4
50°	2012.5	1968.0	2207.4	2476.4	2698.8	2800.5	2876.8	2984.8	3042.0	3039.9	3029.3
52.5°	1796.4	1768.9	1991.3	2237.0	2438.3	2529.4	2597.2	2692.5	2739.1	2739.1	2730.6
55°	1590.9	1574.0	1766.7	2004.0	2192.5	2273.0	2336.6	2421.3	2459.5	2459.5	2446.7
57.5°	1383.3	1381.2	1561.3	1773.1	1953.2	2025.2	2093.0	2167.1	2201.0	2201.0	2179.8
60°	1179.9	1190.5	1368.5	1563.4	1728.6	1798.5	1857.8	1929.9	1951.0	1955.3	1951.0
62.5°	991.4	1018.9	1188.4	1366.4	1531.6	1590.9	1643.9	1713.8	1730.7	1737.1	1726.5
65°	813.5	855.8	1027.4	1196.9	1351.5	1413.0	1459.6	1508.3	1523.1	1529.5	1527.4
67.5°	667.3	711.8	883.4	1050.7	1192.7	1241.4	1288.0	1330.4	1332.5	1343.1	1334.6
70°	516.9	584.7	756.3	915.1	1048.6	1093.1	1131.2	1160.9	1167.2	1169.4	1167.2
72.5°	398.3	478.8	641.9	798.6	919.4	961.8	991.4	1014.7	1014.7	1016.8	1010.5
75°	300.8	398.3	557.1	701.2	809.2	851.6	874.9	889.7	881.3	879.1	872.8
77.5°	218.2	330.5	480.9	616.5	718.1	749.9	771.1	773.2	760.5	758.4	745.7
80°	150.4	269.0	415.2	542.3	635.5	667.3	677.9	669.4	658.8	646.1	629.2
82.5°	99.6	218.2	360.1	480.9	567.7	593.2	601.6	588.9	574.1	552.9	525.4
85°	53.0	175.8	313.5	430.0	512.7	536.0	540.2	516.9	493.6	466.0	438.5
87.5°	23.3	144.1	279.6	396.1	468.2	485.1	487.2	461.8	432.2	400.4	366.5
90°	4.2	122.9	258.4	370.7	440.6	455.5	455.5	421.6	391.9	358.0	319.9
92.5°	2.1	116.5	252.1	362.2	432.2	447.0	444.9	408.9	372.8	334.7	296.6
95°	2.1	101.7	237.3	353.8	425.8	440.6	438.5	400.4	362.2	322.0	279.6
97.5°	2.1	84.7	222.4	338.9	415.2	430.0	430.0	394.0	355.9	313.5	269.0
100°	0.0	65.7	205.5	324.1	400.4	419.4	421.6	387.7	347.4	305.0	262.7
102.5°	0.0	44.5	190.7	311.4	389.8	408.9	413.1	385.5	343.2	300.8	258.4
105°	2.1	27.5	171.6	296.6	379.2	400.4	406.7	383.4	341.1	300.8	258.4
107.5°	2.1	19.1	152.5	281.7	370.7	394.0	402.5	383.4	343.2	302.9	262.7
110°	2.1	16.9	129.2	266.9	360.1	385.5	398.3	385.5	347.4	309.3	269.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	2.1	12.7	97.4	247.9	347.4	377.1	394.0	387.7	353.8	315.6	277.5
115°	2.1	10.6	65.7	228.8	334.7	368.6	389.8	389.8	360.1	324.1	288.1
117.5°	2.1	10.6	44.5	203.4	319.9	358.0	381.3	391.9	368.6	332.6	300.8
120°	2.1	8.5	21.2	173.7	300.8	343.2	372.8	391.9	375.0	343.2	311.4
122.5°	2.1	8.5	16.9	133.5	279.6	326.2	360.1	389.8	381.3	351.7	324.1
125°	2.1	6.4	14.8	89.0	252.1	302.9	343.2	383.4	383.4	360.1	334.7
127.5°	2.1	6.4	12.7	63.6	216.1	277.5	319.9	372.8	383.4	366.5	345.3
130°	2.1	6.4	10.6	19.1	165.2	241.5	292.3	355.9	379.2	370.7	351.7
132.5°	2.1	4.2	10.6	14.8	105.9	188.5	254.2	328.4	366.5	370.7	358.0
135°	2.1	4.2	8.5	12.7	76.3	116.5	203.4	294.5	343.2	358.0	358.0
137.5°	2.1	4.2	8.5	10.6	33.9	86.9	127.1	254.2	313.5	341.1	347.4
140°	2.1	4.2	6.4	8.5	12.7	46.6	91.1	201.2	277.5	315.6	332.6
142.5°	2.1	4.2	6.4	8.5	10.6	10.6	55.1	116.5	233.0	281.7	309.3
145°	2.1	4.2	4.2	6.4	8.5	10.6	10.6	89.0	167.4	241.5	277.5
147.5°	2.1	2.1	4.2	6.4	8.5	8.5	8.5	40.2	99.6	184.3	237.3
150°	2.1	2.1	4.2	4.2	6.4	6.4	8.5	8.5	65.7	103.8	175.8
152.5°	2.1	2.1	4.2	4.2	6.4	6.4	6.4	8.5	8.5	69.9	97.4
155°	2.1	2.1	4.2	4.2	4.2	6.4	6.4	6.4	6.4	8.5	61.4
157.5°	2.1	2.1	4.2	4.2	4.2	4.2	4.2	6.4	6.4	8.5	8.5
160°	2.1	4.2	4.2	4.2	4.2	4.2	4.2	6.4	6.4	6.4	8.5
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°	4319.4	4319.4	4319.4	4319.4	4319.4	4319.4	4319.4	4319.4	4319.4	4319.4
2.5°	4247.4	4279.2	4279.2	4306.7	4321.5	4317.3	4321.5	4330.0	4304.6	4296.1
5°	4380.8	4444.4	4476.2	4548.2	4565.1	4596.9	4607.5	4643.5	4652.0	4626.6
7.5°	4800.3	4931.6	5016.4	5103.2	5141.3	5160.4	5194.3	5217.6	5253.6	5226.1
10°	5194.3	5353.2	5473.9	5569.3	5592.6	5611.6	5651.9	5709.1	5704.8	5700.6
12.5°	5535.4	5675.2	5823.5	5961.2	6031.1	6045.9	6105.2	6175.1	6187.8	6130.6
15°	5817.1	6012.0	6179.4	6325.5	6353.1	6391.2	6435.7	6459.0	6448.4	6456.9
17.5°	6052.3	6217.5	6336.1	6414.5	6431.4	6461.1	6501.4	6531.0	6535.2	6537.4
20°	6145.5	6255.6	6370.0	6478.1	6511.9	6541.6	6590.3	6615.7	6611.5	6598.8
22.5°	6128.5	6289.5	6395.4	6484.4	6518.3	6545.8	6588.2	6605.2	6598.8	6586.1
25°	6103.1	6240.8	6334.0	6380.6	6380.6	6401.8	6391.2	6378.5	6363.7	6365.8
27.5°	5982.3	6062.8	6126.4	6179.4	6185.7	6187.8	6181.5	6168.8	6160.3	6141.2
30°	5736.6	5834.1	5863.7	5859.5	5851.0	5848.9	5823.5	5804.4	5781.1	5783.2
32.5°	5448.5	5469.7	5482.4	5446.4	5425.2	5421.0	5397.7	5365.9	5334.1	5300.2
35°	5077.8	5063.0	5033.3	5007.9	4990.9	4965.5	4931.6	4899.8	4859.6	4861.7
37.5°	4719.8	4673.2	4630.8	4560.9	4548.2	4488.9	4423.2	4372.4	4306.7	4270.7
40°	4346.9	4300.3	4247.4	4171.1	4137.2	4082.1	4010.1	3925.4	3872.4	3851.2
42.5°	3991.1	3933.9	3872.4	3781.3	3739.0	3694.5	3618.2	3535.6	3497.5	3491.1
45°	3643.6	3578.0	3518.7	3417.0	3372.5	3319.5	3241.1	3190.3	3135.2	3122.5
47.5°	3308.9	3251.7	3160.6	3082.3	3039.9	2995.4	2914.9	2868.3	2828.1	2813.2
50°	2984.8	2929.7	2859.8	2773.0	2732.7	2690.4	2633.2	2588.7	2542.1	2527.2
52.5°	2694.6	2639.5	2567.5	2499.7	2459.5	2434.0	2381.1	2330.2	2294.2	2270.9
55°	2415.0	2364.1	2298.5	2234.9	2220.1	2186.2	2124.8	2080.3	2057.0	2059.1
57.5°	2158.6	2114.2	2063.3	2001.9	1978.6	1946.8	1906.6	1853.6	1826.1	1817.6
60°	1925.6	1883.3	1840.9	1794.3	1764.6	1741.3	1686.2	1643.9	1607.9	1603.6
62.5°	1703.2	1671.4	1635.4	1588.8	1563.4	1538.0	1489.2	1449.0	1421.4	1413.0
65°	1510.4	1482.9	1440.5	1402.4	1377.0	1351.5	1304.9	1264.7	1241.4	1218.1
67.5°	1319.8	1296.5	1264.7	1224.4	1201.1	1175.7	1135.5	1091.0	1063.4	1057.1
70°	1150.3	1124.9	1099.4	1057.1	1035.9	1021.1	976.6	932.1	910.9	902.4
72.5°	1004.1	976.6	940.6	910.9	898.2	870.7	828.3	798.6	771.1	754.1
75°	851.6	834.6	809.2	775.3	752.0	733.0	699.1	669.4	646.1	629.2
77.5°	726.6	705.4	684.2	650.3	633.4	616.5	580.4	555.0	531.7	523.2
80°	610.1	591.0	561.4	536.0	521.1	506.3	478.8	451.2	434.3	425.8
82.5°	504.2	487.2	463.9	442.7	425.8	415.2	389.8	366.5	351.7	338.9
85°	417.3	396.1	375.0	355.9	343.2	334.7	315.6	298.7	279.6	275.4
87.5°	343.2	326.2	307.2	288.1	279.6	269.0	252.1	239.4	224.5	218.2
90°	294.5	273.3	256.3	241.5	233.0	226.7	214.0	197.0	186.4	180.1
92.5°	266.9	247.9	233.0	218.2	211.8	205.5	190.7	177.9	167.4	158.9
95°	250.0	230.9	216.1	203.4	197.0	192.8	180.1	167.4	156.8	150.4
97.5°	237.3	216.1	201.2	190.7	184.3	180.1	169.5	158.9	148.3	141.9
100°	226.7	205.5	190.7	180.1	175.8	171.6	161.0	150.4	141.9	135.6
102.5°	222.4	199.1	184.3	175.8	171.6	167.4	156.8	148.3	137.7	131.3
105°	222.4	197.0	182.2	171.6	167.4	163.1	154.6	146.2	135.6	129.2
107.5°	226.7	199.1	182.2	173.7	169.5	165.2	154.6	146.2	135.6	129.2
110°	233.0	205.5	186.4	175.8	171.6	167.4	156.8	148.3	137.7	131.3



TEST NUMBER: P#

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

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	241.5	211.8	192.8	180.1	175.8	171.6	161.0	152.5	141.9	135.6
115°	252.1	220.3	201.2	186.4	182.2	177.9	167.4	156.8	148.3	141.9
117.5°	264.8	233.0	209.7	194.9	190.7	184.3	173.7	163.1	154.6	148.3
120°	277.5	247.9	222.4	205.5	199.1	192.8	182.2	171.6	161.0	154.6
122.5°	292.3	260.6	235.1	218.2	211.8	205.5	192.8	182.2	171.6	163.1
125°	307.2	277.5	250.0	230.9	222.4	216.1	203.4	190.7	182.2	173.7
127.5°	319.9	292.3	264.8	245.7	237.3	228.8	216.1	203.4	192.8	186.4
130°	330.5	307.2	281.7	260.6	252.1	245.7	228.8	216.1	205.5	199.1
132.5°	341.1	319.9	298.7	277.5	269.0	260.6	245.7	230.9	220.3	211.8
135°	347.4	330.5	313.5	294.5	286.0	275.4	260.6	245.7	233.0	224.5
137.5°	347.4	338.9	324.1	309.3	300.8	292.3	275.4	260.6	247.9	241.5
140°	336.8	338.9	332.6	322.0	313.5	307.2	292.3	275.4	262.7	256.3
142.5°	322.0	328.4	332.6	326.2	322.0	317.8	305.0	290.2	277.5	269.0
145°	298.7	311.4	319.9	326.2	324.1	322.0	311.4	300.8	288.1	279.6
147.5°	269.0	288.1	298.7	313.5	317.8	317.8	313.5	305.0	294.5	288.1
150°	226.7	254.2	273.3	288.1	294.5	302.9	302.9	296.6	290.2	283.9
152.5°	161.0	205.5	233.0	254.2	262.7	271.2	281.7	277.5	269.0	264.8
155°	91.1	112.3	169.5	203.4	214.0	224.5	241.5	245.7	243.6	237.3
157.5°	46.6	76.3	95.3	110.2	116.5	133.5	167.4	190.7	188.5	192.8
160°	10.6	12.7	36.0	67.8	76.3	80.5	89.0	95.3	95.3	91.1
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)