

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: P232522

Luminaire Tested: **8SKB1-LD5-16-N-UNV-L835-CD2-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P232522
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-N-UNV-L835-CD2-U
Description: METALUX SKYBAR 8' WAVESTREAM STRIP
WITH NARROW LENS
Light Source: (476) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16101.0 lumens
Efficiency: N/A
Efficacy: 123.4 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

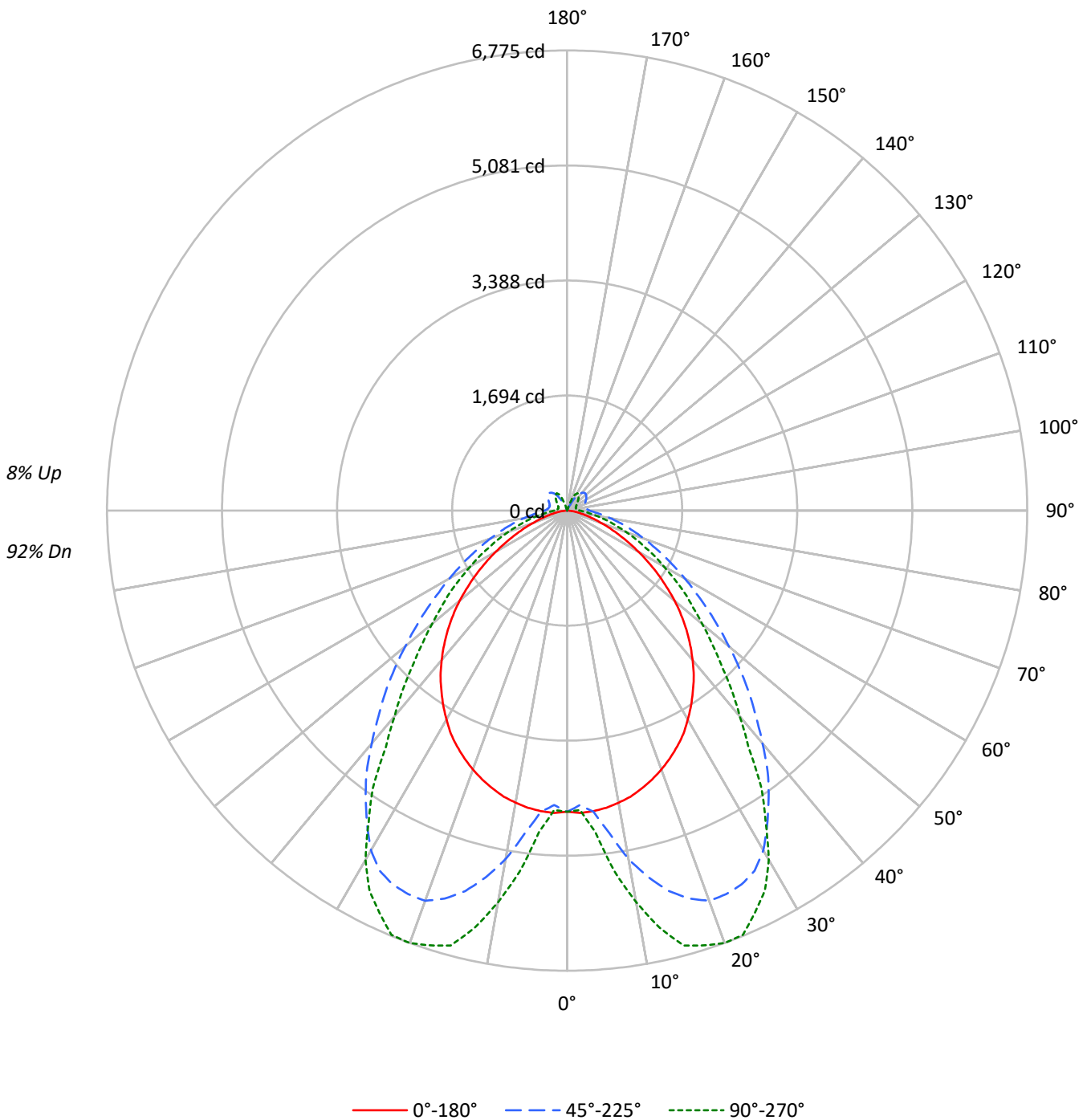
Input Watts (W): 130.5
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P232522

CATALOG NUMBER: 8SKB1-LD5-16-N-UNV-L835-CD2-U

Luminous Intensity Polar Plot





TEST NUMBER: P232522

CATALOG NUMBER: 8SKB1-LD5-16-N-UNV-L835-CD2-U

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°	23866	23866	23866
5°	23917	22375	23285
10°	23714	24753	26527
15°	23377	26309	28139
20°	22939	26735	27236
25°	22376	25826	25135
30°	21616	24073	22047
35°	20691	21294	18049
40°	19585	18357	14037
45°	18239	15571	11261
50°	16579	12930	9088
55°	14567	10641	7440
60°	12265	8716	5867
65°	9864	7070	4547
70°	7591	5650	3467
75°	5652	4463	2508
80°	3965	3437	1779
85°	2371	2592	1218



TEST NUMBER: P232522

CATALOG NUMBER: 8SKB1-LD5-16-N-UNV-L835-CD2-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	454.0	2.8
10°-20°	1579.7	9.8
20°-30°	2600.8	16.2
30°-40°	2921.8	18.1
40°-50°	2600.1	16.1
50°-60°	2010.8	12.5
60°-70°	1365.5	8.5
70°-80°	814.9	5.1
80°-90°	437.1	2.7
90°-100°	287.6	1.8
100°-110°	244.0	1.5
110°-120°	225.7	1.4
120°-130°	210.3	1.3
130°-140°	178.3	1.1
140°-150°	121.8	0.8
150°-160°	47.1	0.3
160°-170°	1.5	0.0
170°-180°	0.0	0.0
0°-30°	4634.5	28.8
0°-40°	7556.3	46.9
0°-60°	12167.3	75.6
0°-90°	14784.7	91.8
90°-120°	757.3	4.7
90°-150°	1267.7	7.9
90°-180°	1316.0	8.2
0°-180°	16101.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4434	4434	4434	4434	4434	
5°	4441	4380	4450	4687	4750	422
15°	4237	4759	5798	6522	6629	1194
25°	3832	4922	6074	6551	6535	1763
35°	3230	4432	5172	5124	4991	2018
45°	2484	3425	3786	3462	3206	1911
55°	1633	2334	2512	2279	2114	1459
65°	835	1451	1568	1414	1250	842
75°	309	874	896	772	646	338
85°	54	550	450	352	283	67
90°	4	468	328	239	185	5
95°	2	452	287	202	154	1
105°	2	411	265	172	133	1
115°	2	378	296	187	146	2
125°	2	311	344	228	178	2
135°	2	120	368	294	230	2
145°	2	11	285	333	287	1
155°	2	6	63	220	244	1
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P232522

CATALOG NUMBER: 8SKB1-LD5-16-N-UNV-L835-CD2-U

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	4434.5	4434.5	4434.5	4434.5	4434.5	4434.5	4434.5	4434.5	4434.5	4434.5	4434.5
2.5°	4456.3	4438.9	4408.4	4406.3	4386.7	4378.0	4380.2	4373.6	4367.1	4356.2	4338.8
5°	4441.1	4408.4	4358.4	4358.4	4369.3	4380.2	4406.3	4430.2	4436.7	4451.9	4449.8
7.5°	4412.8	4362.8	4314.9	4354.1	4393.2	4408.4	4438.9	4482.4	4549.8	4673.8	4795.6
10°	4367.1	4299.7	4284.5	4347.5	4399.7	4445.4	4515.0	4717.3	4904.3	5089.2	5208.8
12.5°	4314.9	4232.3	4254.0	4334.5	4456.3	4543.3	4721.6	4989.1	5137.0	5352.3	5528.5
15°	4236.6	4158.3	4197.5	4317.1	4571.5	4758.6	4858.6	5184.9	5421.9	5600.3	5798.2
17.5°	4151.8	4082.2	4136.6	4347.5	4693.3	4873.9	5034.8	5311.0	5539.4	5802.5	5989.6
20°	4058.3	3997.4	4067.0	4386.7	4752.1	4936.9	5115.3	5378.4	5680.7	5952.6	6113.5
22.5°	3949.5	3895.2	4001.7	4404.1	4773.8	4958.7	5132.7	5439.3	5752.5	5976.5	6113.5
25°	3832.1	3777.7	3923.4	4369.3	4752.1	4921.7	5108.7	5471.9	5728.6	5904.7	6074.4
27.5°	3706.0	3645.1	3864.7	4297.5	4665.1	4856.5	5067.4	5408.9	5611.1	5806.9	5978.7
30°	3551.5	3497.2	3762.5	4193.1	4543.3	4769.5	4950.0	5256.6	5450.2	5643.8	5776.4
32.5°	3397.1	3344.9	3638.5	4045.2	4404.1	4617.2	4791.2	5030.4	5250.1	5400.2	5482.8
35°	3229.7	3170.9	3495.0	3864.7	4247.5	4432.4	4578.1	4795.6	4980.4	5091.3	5171.8
37.5°	3062.2	2999.1	3312.3	3675.5	4040.9	4210.5	4332.3	4552.0	4693.3	4784.7	4852.1
40°	2873.0	2807.7	3123.1	3462.4	3825.6	3945.2	4071.3	4267.1	4371.5	4445.4	4478.0
42.5°	2681.6	2616.4	2918.7	3238.4	3562.4	3679.9	3810.3	3964.8	4067.0	4110.5	4110.5
45°	2483.7	2420.6	2707.7	3016.5	3290.6	3425.4	3540.7	3664.6	3749.5	3784.3	3786.4
47.5°	2277.1	2224.9	2498.9	2779.5	3036.1	3153.5	3242.7	3362.3	3436.3	3445.0	3442.8
50°	2066.1	2020.4	2266.2	2542.4	2770.8	2875.2	2953.5	3064.4	3123.1	3120.9	3110.0
52.5°	1844.3	1816.0	2044.4	2296.6	2503.3	2596.8	2666.4	2764.2	2812.1	2812.1	2803.4
55°	1633.3	1615.9	1813.8	2057.4	2251.0	2333.6	2398.9	2485.9	2525.0	2525.0	2512.0
57.5°	1420.2	1418.0	1602.9	1820.4	2005.2	2079.2	2148.8	2224.9	2259.7	2259.7	2237.9
60°	1211.4	1222.3	1405.0	1605.0	1774.7	1846.5	1907.3	1981.3	2003.0	2007.4	2003.0
62.5°	1017.8	1046.1	1220.1	1402.8	1572.4	1633.3	1687.7	1759.5	1776.9	1783.4	1772.5
65°	835.1	878.6	1054.8	1228.8	1387.6	1450.6	1498.5	1548.5	1563.7	1570.2	1568.1
67.5°	685.1	730.8	906.9	1078.7	1224.4	1274.5	1322.3	1365.8	1368.0	1378.9	1370.2
70°	530.7	600.3	776.4	939.5	1076.6	1122.2	1161.4	1191.8	1198.3	1200.5	1198.3
72.5°	408.9	491.5	659.0	819.9	943.9	987.4	1017.8	1041.8	1041.8	1043.9	1037.4
75°	308.8	408.9	572.0	719.9	830.8	874.3	898.2	913.4	904.7	902.6	896.0
77.5°	224.0	339.3	493.7	632.9	737.3	769.9	791.6	793.8	780.8	778.6	765.5
80°	154.4	276.2	426.3	556.8	652.5	685.1	696.0	687.3	676.4	663.3	645.9
82.5°	102.2	224.0	369.7	493.7	582.9	609.0	617.7	604.6	589.4	567.6	539.4
85°	54.4	180.5	321.9	441.5	526.3	550.2	554.6	530.7	506.7	478.5	450.2
87.5°	23.9	147.9	287.1	406.7	480.6	498.0	500.2	474.1	443.7	411.0	376.3
90°	4.3	126.1	265.3	380.6	452.4	467.6	467.6	432.8	402.3	367.6	328.4
92.5°	2.2	119.6	258.8	371.9	443.7	458.9	456.7	419.7	382.8	343.6	304.5
95°	2.2	104.4	243.6	363.2	437.1	452.4	450.2	411.0	371.9	330.6	287.1
97.5°	2.2	87.0	228.4	348.0	426.3	441.5	441.5	404.5	365.4	321.9	276.2
100°	0.0	67.4	211.0	332.8	411.0	430.6	432.8	398.0	356.7	313.2	269.7
102.5°	0.0	45.7	195.7	319.7	400.2	419.7	424.1	395.8	352.3	308.8	265.3
105°	2.2	28.3	176.2	304.5	389.3	411.0	417.6	393.6	350.2	308.8	265.3
107.5°	2.2	19.6	156.6	289.3	380.6	404.5	413.2	393.6	352.3	311.0	269.7
110°	2.2	17.4	132.7	274.0	369.7	395.8	408.9	395.8	356.7	317.5	276.2



TEST NUMBER: P232522

CATALOG NUMBER: 8SKB1-LD5-16-N-UNV-L835-CD2-U

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	2.2	13.0	100.0	254.5	356.7	387.1	404.5	398.0	363.2	324.1	284.9
115°	2.2	10.9	67.4	234.9	343.6	378.4	400.2	400.2	369.7	332.8	295.8
117.5°	2.2	10.9	45.7	208.8	328.4	367.6	391.5	402.3	378.4	341.5	308.8
120°	2.2	8.7	21.7	178.3	308.8	352.3	382.8	402.3	384.9	352.3	319.7
122.5°	2.2	8.7	17.4	137.0	287.1	334.9	369.7	400.2	391.5	361.0	332.8
125°	2.2	6.5	15.2	91.3	258.8	311.0	352.3	393.6	393.6	369.7	343.6
127.5°	2.2	6.5	13.0	65.2	221.8	284.9	328.4	382.8	393.6	376.3	354.5
130°	2.2	6.5	10.9	19.6	169.6	247.9	300.1	365.4	389.3	380.6	361.0
132.5°	2.2	4.3	10.9	15.2	108.7	193.6	261.0	337.1	376.3	380.6	367.6
135°	2.2	4.3	8.7	13.0	78.3	119.6	208.8	302.3	352.3	367.6	367.6
137.5°	2.2	4.3	8.7	10.9	34.8	89.2	130.5	261.0	321.9	350.2	356.7
140°	2.2	4.3	6.5	8.7	13.0	47.8	93.5	206.6	284.9	324.1	341.5
142.5°	2.2	4.3	6.5	8.7	10.9	10.9	56.5	119.6	239.2	289.3	317.5
145°	2.2	4.3	4.3	6.5	8.7	10.9	10.9	91.3	171.8	247.9	284.9
147.5°	2.2	2.2	4.3	6.5	8.7	8.7	8.7	41.3	102.2	189.2	243.6
150°	2.2	2.2	4.3	4.3	6.5	6.5	8.7	8.7	67.4	106.6	180.5
152.5°	2.2	2.2	4.3	4.3	6.5	6.5	6.5	8.7	8.7	71.8	100.0
155°	2.2	2.2	4.3	4.3	4.3	6.5	6.5	6.5	6.5	8.7	63.1
157.5°	2.2	2.2	4.3	4.3	4.3	4.3	4.3	6.5	6.5	8.7	8.7
160°	2.2	4.3	4.3	4.3	4.3	4.3	4.3	6.5	6.5	6.5	8.7
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



TEST NUMBER: P232522

CATALOG NUMBER: 8SKB1-LD5-16-N-UNV-L835-CD2-U

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	4434.5	4434.5	4434.5	4434.5	4434.5	4434.5	4434.5	4434.5	4434.5	4434.5
2.5°	4360.6	4393.2	4393.2	4421.5	4436.7	4432.4	4436.7	4445.4	4419.3	4410.6
5°	4497.6	4562.9	4595.5	4669.4	4686.8	4719.4	4730.3	4767.3	4776.0	4749.9
7.5°	4928.2	5063.1	5150.1	5239.2	5278.4	5298.0	5332.7	5356.7	5393.6	5365.4
10°	5332.7	5495.9	5619.8	5717.7	5741.6	5761.2	5802.5	5861.2	5856.9	5852.5
12.5°	5682.9	5826.4	5978.7	6120.0	6191.8	6207.0	6267.9	6339.7	6352.8	6294.0
15°	5972.2	6172.2	6344.1	6494.1	6522.4	6561.5	6607.2	6631.1	6620.3	6629.0
17.5°	6213.6	6383.2	6505.0	6585.5	6602.9	6633.3	6674.6	6705.1	6709.4	6711.6
20°	6309.3	6422.4	6539.8	6650.7	6685.5	6716.0	6766.0	6792.1	6787.7	6774.7
22.5°	6291.9	6457.2	6565.9	6657.2	6692.0	6720.3	6763.8	6781.2	6774.7	6761.6
25°	6265.8	6407.1	6502.8	6550.7	6550.7	6572.4	6561.5	6548.5	6533.3	6535.4
27.5°	6141.8	6224.4	6289.7	6344.1	6350.6	6352.8	6346.2	6333.2	6324.5	6304.9
30°	5889.5	5989.6	6020.0	6015.7	6007.0	6004.8	5978.7	5959.1	5935.2	5937.4
32.5°	5593.7	5615.5	5628.5	5591.6	5569.8	5565.5	5541.5	5508.9	5476.3	5441.5
35°	5213.1	5197.9	5167.5	5141.4	5124.0	5097.9	5063.1	5030.4	4989.1	4991.3
37.5°	4845.6	4797.7	4754.2	4682.5	4669.4	4608.5	4541.1	4488.9	4421.5	4384.5
40°	4462.8	4415.0	4360.6	4282.3	4247.5	4190.9	4117.0	4030.0	3975.6	3953.9
42.5°	4097.4	4038.7	3975.6	3882.1	3838.6	3793.0	3714.7	3629.8	3590.7	3584.2
45°	3740.8	3673.3	3612.4	3508.0	3462.4	3408.0	3327.5	3275.3	3218.8	3205.7
47.5°	3397.1	3338.4	3244.9	3164.4	3120.9	3075.2	2992.6	2944.8	2903.4	2888.2
50°	3064.4	3007.8	2936.1	2846.9	2805.6	2762.1	2703.3	2657.7	2609.8	2594.6
52.5°	2766.4	2709.9	2635.9	2566.3	2525.0	2498.9	2444.5	2392.3	2355.4	2331.4
55°	2479.3	2427.1	2359.7	2294.5	2279.3	2244.5	2181.4	2135.7	2111.8	2114.0
57.5°	2216.2	2170.5	2118.3	2055.2	2031.3	1998.7	1957.4	1903.0	1874.7	1866.0
60°	1976.9	1933.4	1890.0	1842.1	1811.7	1787.7	1731.2	1687.7	1650.7	1646.4
62.5°	1748.6	1716.0	1679.0	1631.1	1605.0	1578.9	1528.9	1487.6	1459.3	1450.6
65°	1550.7	1522.4	1478.9	1439.8	1413.7	1387.6	1339.7	1298.4	1274.5	1250.5
67.5°	1354.9	1331.0	1298.4	1257.1	1233.1	1207.0	1165.7	1120.1	1091.8	1085.3
70°	1180.9	1154.8	1128.8	1085.3	1063.5	1048.3	1002.6	956.9	935.2	926.5
72.5°	1030.9	1002.6	965.6	935.2	922.1	893.9	850.4	819.9	791.6	774.2
75°	874.3	856.9	830.8	796.0	772.1	752.5	717.7	687.3	663.3	645.9
77.5°	746.0	724.2	702.5	667.7	650.3	632.9	595.9	569.8	545.9	537.2
80°	626.4	606.8	576.3	550.2	535.0	519.8	491.5	463.2	445.8	437.1
82.5°	517.6	500.2	476.3	454.5	437.1	426.3	400.2	376.3	361.0	348.0
85°	428.4	406.7	384.9	365.4	352.3	343.6	324.1	306.7	287.1	282.7
87.5°	352.3	334.9	315.4	295.8	287.1	276.2	258.8	245.8	230.5	224.0
90°	302.3	280.6	263.2	247.9	239.2	232.7	219.7	202.3	191.4	184.9
92.5°	274.0	254.5	239.2	224.0	217.5	211.0	195.7	182.7	171.8	163.1
95°	256.6	237.1	221.8	208.8	202.3	197.9	184.9	171.8	160.9	154.4
97.5°	243.6	221.8	206.6	195.7	189.2	184.9	174.0	163.1	152.2	145.7
100°	232.7	211.0	195.7	184.9	180.5	176.2	165.3	154.4	145.7	139.2
102.5°	228.4	204.4	189.2	180.5	176.2	171.8	160.9	152.2	141.4	134.8
105°	228.4	202.3	187.0	176.2	171.8	167.5	158.8	150.1	139.2	132.7
107.5°	232.7	204.4	187.0	178.3	174.0	169.6	158.8	150.1	139.2	132.7
110°	239.2	211.0	191.4	180.5	176.2	171.8	160.9	152.2	141.4	134.8



TEST NUMBER: P232522

CATALOG NUMBER: 8SKB1-LD5-16-N-UNV-L835-CD2-U

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	247.9	217.5	197.9	184.9	180.5	176.2	165.3	156.6	145.7	139.2
115°	258.8	226.2	206.6	191.4	187.0	182.7	171.8	160.9	152.2	145.7
117.5°	271.9	239.2	215.3	200.1	195.7	189.2	178.3	167.5	158.8	152.2
120°	284.9	254.5	228.4	211.0	204.4	197.9	187.0	176.2	165.3	158.8
122.5°	300.1	267.5	241.4	224.0	217.5	211.0	197.9	187.0	176.2	167.5
125°	315.4	284.9	256.6	237.1	228.4	221.8	208.8	195.7	187.0	178.3
127.5°	328.4	300.1	271.9	252.3	243.6	234.9	221.8	208.8	197.9	191.4
130°	339.3	315.4	289.3	267.5	258.8	252.3	234.9	221.8	211.0	204.4
132.5°	350.2	328.4	306.7	284.9	276.2	267.5	252.3	237.1	226.2	217.5
135°	356.7	339.3	321.9	302.3	293.6	282.7	267.5	252.3	239.2	230.5
137.5°	356.7	348.0	332.8	317.5	308.8	300.1	282.7	267.5	254.5	247.9
140°	345.8	348.0	341.5	330.6	321.9	315.4	300.1	282.7	269.7	263.2
142.5°	330.6	337.1	341.5	334.9	330.6	326.2	313.2	298.0	284.9	276.2
145°	306.7	319.7	328.4	334.9	332.8	330.6	319.7	308.8	295.8	287.1
147.5°	276.2	295.8	306.7	321.9	326.2	326.2	321.9	313.2	302.3	295.8
150°	232.7	261.0	280.6	295.8	302.3	311.0	311.0	304.5	298.0	291.4
152.5°	165.3	211.0	239.2	261.0	269.7	278.4	289.3	284.9	276.2	271.9
155°	93.5	115.3	174.0	208.8	219.7	230.5	247.9	252.3	250.1	243.6
157.5°	47.8	78.3	97.9	113.1	119.6	137.0	171.8	195.7	193.6	197.9
160°	10.9	13.0	37.0	69.6	78.3	82.6	91.3	97.9	97.9	93.5
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)