

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: P295279

Luminaire Tested: **UHB-30-UNV-L850-CD-U**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P295279
Test Lab: Standard-Tech Co., Ltd Testing Center
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: UHB-30-UNV-L850-CD-U
Description: UHB 240W 5000K ROUND HIGH BAY LED WITH CLEAR RING LENS
Light Source: 5000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

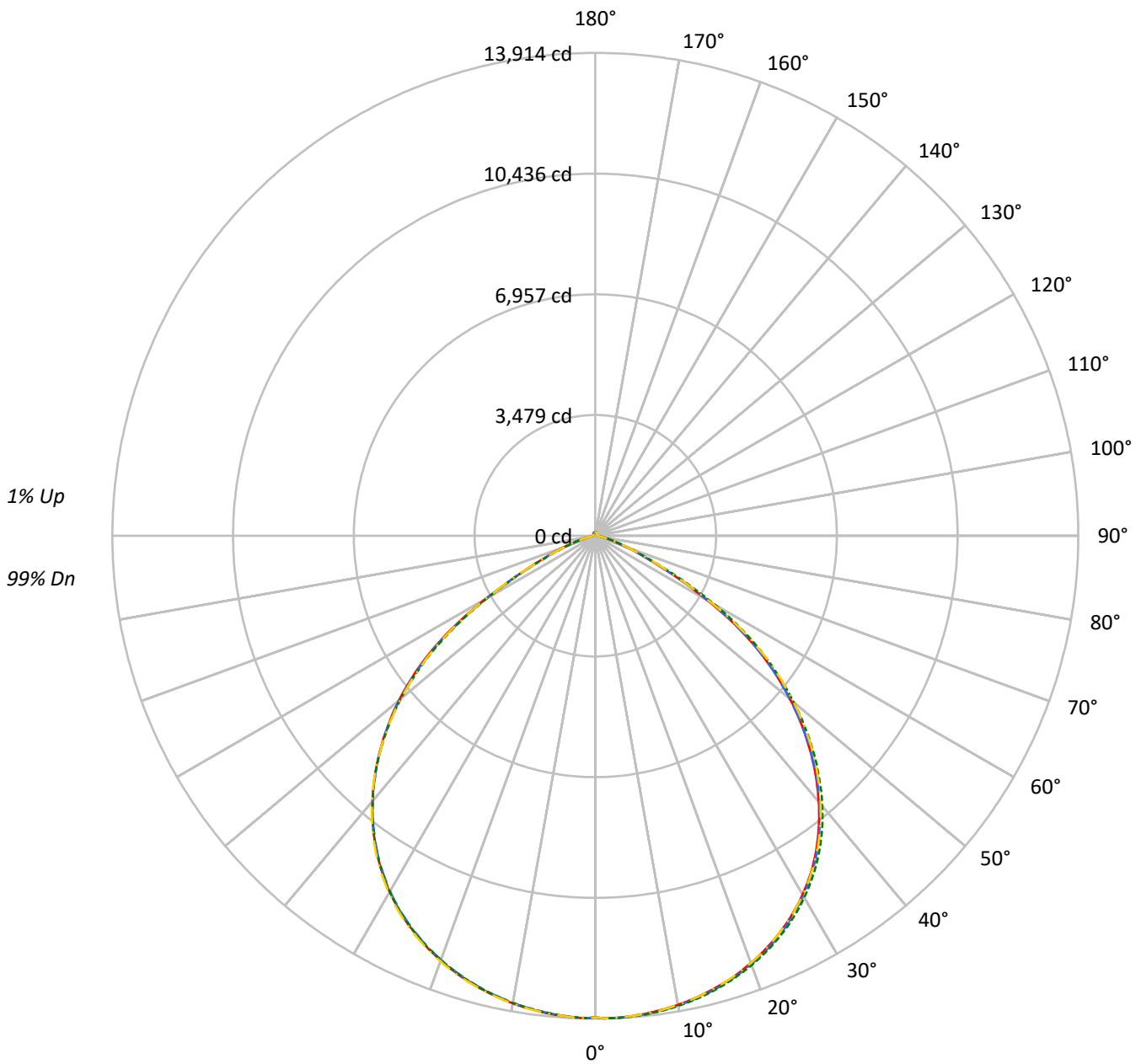
Lumens per Lamp: N/A
Luminaire Lumens: 32724.0 lumens
Efficiency: N/A
Efficacy: 136.9 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.35
Luminous Opening: Circular (Dia: 0.36m x H: 0m)
CIE Type: Direct

Input Watts (W): 239
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

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Luminous Intensity Polar Plot



— 0°-180° - - 45°-225° - - - 90°-270° - · - 135°-315°



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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	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	110	110	110	105	105	105	101	101	101	99								
1	111	107	103	100	108	104	101	98	100	97	95	96	94	92	92	91	89	87								
2	102	95	89	85	99	93	88	83	90	85	81	86	83	79	83	80	77	75								
3	94	85	78	72	92	83	77	71	80	75	70	77	73	69	75	71	67	65								
4	87	76	68	62	84	75	67	62	72	66	61	70	64	60	68	63	59	57								
5	80	69	60	54	78	67	60	54	65	58	53	63	57	53	61	56	52	50								
6	74	62	54	48	72	61	53	48	59	52	47	57	51	47	56	50	46	44								
7	69	56	48	43	67	56	48	42	54	47	42	53	46	42	51	46	41	39								
8	64	52	44	38	63	51	43	38	50	43	38	48	42	37	47	41	37	35								
9	60	47	40	34	59	47	39	34	46	39	34	45	38	34	43	38	34	32								
10	56	44	36	31	55	43	36	31	42	36	31	41	35	31	40	35	31	29								

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	140221	140221	140221	140221
5°	140659	140836	140454	140327
10°	140790	141172	140381	140212
15°	140930	141433	140309	140108
20°	140909	141581	140061	139871
25°	140453	141363	139463	139320
30°	139286	140460	138216	138136
35°	136730	138321	135822	135782
40°	132048	134203	131675	131650
45°	124965	127328	125333	125125
50°	115075	117255	116104	115072
55°	100454	103097	101183	98860
60°	75615	80196	74153	72560
65°	46956	50484	45933	44111
70°	28698	30130	28653	26659
75°	16980	18550	16504	15407
80°	11427	12893	11287	10333
85°	8462	9042	8555	7836



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1318.2	4.0
10°-20°	3797.3	11.6
20°-30°	5789.2	17.7
30°-40°	6911.8	21.1
40°-50°	6756.8	20.6
50°-60°	5044.6	15.4
60°-70°	2067.2	6.3
70°-80°	510.3	1.6
80°-90°	102.1	0.3
90°-100°	57.0	0.2
100°-110°	57.9	0.2
110°-120°	59.8	0.2
120°-130°	61.0	0.2
130°-140°	58.9	0.2
140°-150°	52.5	0.2
150°-160°	42.2	0.1
160°-170°	27.7	0.1
170°-180°	9.6	0.0
0°-30°	10904.7	33.3
0°-40°	17816.5	54.4
0°-60°	29617.8	90.5
0°-90°	32297.5	98.7
90°-120°	174.7	0.5
90°-150°	347.0	1.1
90°-180°	427.0	1.3
0°-180°	32724.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	13879	13879	13879	13879	13879	
5°	13869	13887	13849	13837	13869	###
15°	13474	13522	13414	13395	13474	3804
25°	12600	12681	12511	12498	12600	5803
35°	11086	11215	11012	11009	11086	6916
45°	8746	8912	8772	8757	8746	6722
55°	5703	5853	5744	5612	5703	5028
65°	1964	2112	1921	1845	1964	2078
75°	435	475	423	395	435	514
85°	73	78	74	68	73	86
90°	51	53	52	52	51	29
95°	51	53	53	51	51	42
105°	53	57	56	53	53	56
115°	57	63	63	58	57	57
125°	65	71	71	66	65	58
135°	73	79	79	73	73	57
145°	81	86	86	81	81	51
155°	89	94	94	89	89	41
165°	98	99	98	97	98	27
175°	102	102	101	102	102	10
180°	102	102	102	102	102	



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CANDELA DISTRIBUTION (FULL):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
0°	13879.0	13879.0	13879.0	13879.0	13879.0	13879.0	13879.0	13879.0	13879.0	13879.0	13879.0
1°	13910.6	13911.9	13913.8	13913.7	13911.8	13910.5	13907.2	13906.2	13904.0	13903.7	13906.0
2°	13907.0	13909.2	13912.9	13912.8	13908.7	13905.3	13898.6	13896.2	13891.9	13892.9	13897.0
3°	13898.2	13902.9	13908.8	13908.6	13901.8	13896.5	13886.6	13882.0	13876.6	13878.1	13883.8
4°	13885.6	13892.4	13900.1	13900.1	13891.3	13884.0	13869.8	13863.6	13857.2	13858.9	13866.2
5°	13869.4	13876.7	13887.2	13886.9	13876.1	13866.3	13849.2	13840.9	13833.3	13836.7	13845.4
6°	13848.2	13857.2	13870.0	13870.4	13856.8	13845.2	13823.8	13814.9	13806.5	13810.0	13821.0
7°	13823.4	13833.9	13848.3	13849.2	13832.9	13819.4	13794.6	13785.0	13775.4	13780.2	13792.4
8°	13793.8	13805.7	13822.3	13824.1	13804.4	13790.0	13761.6	13751.6	13740.7	13746.1	13760.2
9°	13760.2	13773.8	13792.0	13794.8	13772.1	13755.1	13724.0	13714.0	13701.2	13708.0	13724.1
10°	13723.7	13737.4	13757.4	13760.9	13736.3	13717.1	13683.8	13672.1	13658.0	13667.3	13683.4
11°	13681.8	13696.8	13718.0	13721.9	13695.3	13673.8	13638.3	13625.7	13611.6	13621.0	13639.7
12°	13636.5	13652.3	13673.7	13678.3	13649.8	13626.4	13589.2	13576.2	13560.4	13571.2	13591.7
13°	13586.4	13602.2	13625.2	13631.4	13599.4	13576.1	13535.0	13522.5	13506.8	13516.6	13540.0
14°	13532.3	13548.3	13572.4	13579.3	13545.8	13519.8	13476.8	13464.2	13447.1	13458.5	13483.6
15°	13473.9	13489.6	13514.9	13522.0	13487.2	13460.8	13414.5	13401.4	13383.1	13395.3	13420.6
16°	13412.0	13426.6	13452.4	13460.5	13422.1	13397.1	13346.9	13333.7	13314.3	13327.6	13355.1
17°	13343.9	13359.5	13385.9	13394.2	13353.3	13327.9	13274.5	13260.0	13241.2	13257.0	13285.0
18°	13270.1	13286.2	13314.6	13324.5	13279.7	13252.5	13196.3	13182.8	13161.9	13179.3	13208.0
19°	13190.7	13208.6	13237.2	13248.9	13201.0	13171.7	13114.0	13099.7	13077.9	13096.5	13128.2
20°	13106.0	13124.4	13155.8	13168.5	13116.6	13088.2	13027.2	13012.4	12990.5	13009.5	13042.5
21°	13016.8	13036.8	13068.5	13082.5	13026.8	12999.3	12933.1	12918.3	12896.9	12916.8	12951.7
22°	12921.0	12940.2	12975.6	12990.2	12933.1	12901.4	12836.2	12822.2	12799.4	12821.2	12854.7
23°	12818.8	12838.6	12877.6	12893.4	12832.5	12801.4	12732.5	12718.1	12695.7	12717.4	12754.8
24°	12712.3	12732.1	12772.0	12789.6	12727.3	12693.0	12625.0	12609.8	12587.8	12611.6	12649.1
25°	12599.5	12618.5	12660.2	12681.1	12615.0	12582.6	12510.7	12495.2	12473.6	12497.9	12535.9
26°	12481.7	12499.2	12542.7	12566.5	12498.7	12466.2	12391.1	12377.2	12354.8	12379.8	12420.4
27°	12357.8	12370.8	12419.1	12444.5	12377.0	12343.1	12264.7	12252.2	12229.6	12256.0	12296.5
28°	12224.0	12236.6	12290.0	12316.3	12246.5	12213.9	12130.0	12119.1	12096.6	12123.1	12166.1
29°	12085.6	12096.4	12154.5	12182.2	12112.7	12077.0	11993.0	11981.0	11958.2	11986.9	12029.5
30°	11939.5	11948.2	12009.2	12040.1	11968.1	11934.6	11847.7	11835.0	11813.2	11840.9	11885.3
31°	11785.0	11793.8	11858.1	11891.5	11818.1	11784.8	11695.3	11684.9	11658.6	11689.5	11735.6
32°	11623.6	11631.2	11697.2	11734.5	11658.2	11628.3	11534.2	11524.4	11499.9	11529.8	11575.0
33°	11454.7	11459.3	11531.0	11570.5	11494.7	11462.7	11368.5	11358.5	11333.0	11365.0	11410.4
34°	11273.5	11279.8	11354.6	11396.6	11321.8	11289.4	11195.0	11186.8	11161.4	11191.0	11237.4
35°	11086.0	11087.6	11167.3	11215.0	11141.4	11110.9	11012.4	11004.9	10978.5	11009.1	11054.9
36°	10889.8	10887.4	10975.7	11026.6	10953.6	10922.5	10822.2	10818.0	10792.6	10820.6	10868.4
37°	10683.3	10679.7	10768.6	10826.9	10754.2	10726.9	10625.1	10620.9	10596.4	10623.0	10668.9
38°	10468.3	10463.9	10556.7	10617.9	10548.5	10524.6	10418.0	10418.4	10394.1	10417.6	10464.5
39°	10243.6	10240.0	10332.1	10399.1	10332.4	10309.8	10206.6	10207.7	10182.8	10204.6	10250.3
40°	10012.3	10004.0	10102.2	10175.7	10108.2	10090.4	9984.0	9986.0	9962.8	9982.1	10028.1
41°	9770.5	9760.7	9863.6	9937.4	9875.3	9863.5	9757.4	9761.0	9739.1	9751.6	9800.4
42°	9525.7	9506.8	9615.5	9693.1	9636.0	9627.8	9521.8	9523.0	9504.2	9515.7	9564.2
43°	9274.3	9253.2	9363.1	9440.0	9389.1	9383.6	9279.4	9280.2	9264.2	9272.9	9321.4
44°	9011.1	8983.7	9099.5	9182.2	9133.3	9133.8	9030.6	9030.6	9015.8	9020.5	9063.5



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CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
45°	8746.2	8709.7	8833.4	8911.6	8870.6	8876.2	8772.0	8769.7	8759.2	8757.4	8801.1
46°	8473.2	8432.1	8558.8	8637.1	8602.2	8609.0	8512.2	8506.7	8496.7	8487.1	8531.0
47°	8194.9	8145.6	8277.1	8352.0	8321.6	8334.3	8240.0	8231.3	8222.6	8210.7	8246.3
48°	7911.1	7852.5	7992.1	8064.0	8041.4	8053.5	7962.2	7953.2	7945.1	7924.5	7954.6
49°	7616.9	7548.0	7695.4	7766.2	7749.6	7766.2	7679.4	7664.2	7655.6	7622.8	7648.0
50°	7321.4	7245.4	7391.7	7460.1	7446.0	7471.9	7386.9	7371.0	7353.1	7321.2	7341.1
51°	7012.4	6934.7	7080.6	7149.8	7136.9	7167.7	7083.6	7070.1	7042.0	6999.0	7025.6
52°	6703.5	6619.6	6763.8	6834.0	6829.5	6853.8	6771.2	6757.2	6715.9	6673.4	6711.1
53°	6381.7	6301.8	6443.8	6516.1	6510.4	6530.3	6447.0	6435.4	6381.7	6329.6	6380.3
54°	6045.3	5973.8	6105.3	6185.0	6175.6	6194.7	6105.4	6092.9	6020.6	5978.5	6041.8
55°	5703.0	5633.5	5767.2	5853.1	5843.5	5840.3	5744.4	5733.0	5647.0	5612.5	5690.4
56°	5337.0	5291.2	5417.1	5510.5	5488.7	5466.0	5357.5	5348.3	5249.6	5226.7	5319.1
57°	4963.5	4930.5	5047.8	5152.2	5119.0	5074.5	4948.2	4944.7	4834.3	4831.8	4931.1
58°	4565.0	4555.7	4662.8	4774.1	4727.6	4657.5	4530.7	4529.7	4408.1	4418.7	4530.0
59°	4157.2	4157.5	4266.8	4381.3	4311.6	4231.6	4099.3	4102.1	3985.5	4006.2	4110.6
60°	3742.2	3755.6	3864.7	3968.9	3894.5	3803.2	3669.8	3679.9	3567.7	3591.0	3683.8
61°	3328.3	3348.6	3462.8	3564.4	3470.1	3392.3	3249.8	3268.6	3162.3	3188.2	3264.6
62°	2967.7	2959.2	3066.0	3166.8	3063.8	3002.3	2858.3	2920.6	2782.1	2812.7	2904.7
63°	2607.2	2596.2	2695.4	2814.8	2682.4	2659.0	2503.7	2572.6	2435.5	2453.4	2544.8
64°	2249.1	2264.8	2326.8	2462.8	2353.8	2315.8	2195.7	2226.5	2127.1	2131.2	2186.5
65°	1964.2	1970.4	2024.1	2111.8	2065.0	2021.8	1921.4	1945.0	1856.3	1845.2	1913.5
66°	1717.5	1709.8	1752.2	1826.5	1809.9	1754.7	1679.0	1691.9	1618.6	1596.1	1669.3
67°	1500.6	1481.0	1523.8	1574.2	1585.2	1518.8	1460.5	1473.9	1407.6	1379.5	1450.1
68°	1302.0	1280.7	1320.6	1360.8	1379.4	1313.4	1271.8	1281.2	1225.7	1187.4	1255.6
69°	1130.7	1124.6	1141.2	1180.1	1195.9	1134.4	1120.5	1113.3	1078.9	1044.6	1080.0
70°	971.5	969.3	987.0	1020.0	1050.1	979.0	970.0	968.6	932.9	902.5	923.4
71°	837.2	814.0	845.2	884.0	905.1	839.2	819.5	831.4	787.0	760.5	787.7
72°	718.1	698.8	732.4	760.0	760.1	722.7	695.9	721.5	678.4	656.8	670.7
73°	607.0	594.2	618.6	654.5	645.9	623.6	595.2	615.3	589.1	558.3	566.9
74°	514.2	500.5	540.4	563.6	554.8	530.7	508.1	525.6	498.2	472.5	480.1
75°	435.0	426.9	449.4	475.2	468.0	453.4	422.8	443.0	421.4	394.7	409.1
76°	369.3	361.4	377.2	401.7	393.9	389.1	358.0	371.0	351.3	334.2	347.7
77°	311.5	306.3	317.7	344.0	334.5	325.6	304.3	313.1	298.0	281.5	296.8
78°	273.1	264.2	278.7	295.2	285.6	285.1	261.8	274.9	255.8	241.4	259.3
79°	234.7	228.6	239.6	258.4	246.6	244.6	225.9	236.6	218.9	207.8	221.8
80°	196.4	197.3	200.6	221.6	212.0	204.2	194.0	198.3	186.5	177.6	184.4
81°	166.5	167.6	171.8	184.9	181.3	173.8	164.9	167.7	157.7	149.5	156.2
82°	138.0	139.2	143.9	154.6	151.2	145.7	137.5	138.5	130.5	123.5	127.9
83°	110.5	117.2	116.7	125.7	122.2	119.2	116.2	110.8	110.3	101.2	102.4
84°	87.7	95.4	92.9	97.9	99.3	95.1	95.0	88.7	90.2	78.9	82.2
85°	73.0	73.5	76.4	78.0	76.6	77.4	73.8	72.7	70.0	67.6	69.3
86°	63.9	64.0	66.3	67.3	66.5	67.2	63.9	63.3	60.9	59.9	61.6
87°	56.8	57.0	58.3	59.5	58.6	59.0	57.4	57.0	56.7	55.8	56.2
88°	55.2	55.2	55.8	56.8	56.6	56.5	55.9	55.8	55.5	54.6	54.9
89°	53.3	53.3	54.0	55.3	54.9	55.0	54.2	54.2	53.6	52.5	53.0



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CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
90°	51.3	51.3	51.6	53.1	52.7	52.8	52.5	52.4	52.5	51.6	51.6
91°	51.2	51.2	51.3	52.8	52.6	52.6	52.5	52.5	52.5	51.5	51.5
92°	51.2	51.2	51.2	52.9	52.7	52.7	52.6	52.6	52.6	51.5	51.5
93°	51.2	51.1	51.2	53.0	52.9	52.9	52.7	52.7	52.8	51.4	51.4
94°	51.1	51.1	51.2	53.2	53.0	53.0	52.9	52.9	52.9	51.4	51.4
95°	51.1	51.1	51.2	53.3	53.2	53.2	53.0	53.1	53.1	51.4	51.4
96°	51.2	51.1	51.2	53.5	53.4	53.4	53.2	53.3	53.3	51.4	51.4
97°	51.2	51.1	51.2	53.7	53.6	53.6	53.5	53.5	53.6	51.4	51.5
98°	51.2	51.1	51.2	54.0	53.9	53.8	53.7	53.7	53.8	51.5	51.6
99°	51.3	51.2	51.3	54.2	54.1	54.1	54.0	54.0	54.1	51.6	51.6
100°	51.4	51.3	51.4	54.5	54.4	54.3	54.3	54.3	54.4	51.7	51.7
101°	51.6	51.5	51.5	54.8	54.8	54.6	54.6	54.6	54.7	51.8	51.8
102°	51.7	51.7	51.7	55.2	55.1	55.0	54.9	54.9	55.0	52.0	52.0
103°	51.9	51.9	51.9	55.5	55.5	55.4	55.3	55.3	55.4	52.3	52.2
104°	52.2	52.2	52.2	56.0	56.1	56.0	55.9	55.9	56.0	52.6	52.6
105°	52.6	52.6	52.5	56.6	56.7	56.7	56.4	56.4	56.5	52.9	53.0
106°	52.9	52.9	52.8	57.0	57.2	57.2	56.8	56.9	57.0	53.3	53.3
107°	53.3	53.2	53.1	57.6	57.7	57.7	57.4	57.4	57.5	53.7	53.7
108°	53.7	53.6	53.5	58.2	58.3	58.3	58.0	58.0	58.1	54.1	54.1
109°	54.2	54.1	54.0	58.8	58.9	58.9	58.7	58.7	58.7	54.5	54.5
110°	54.6	54.6	54.4	59.4	59.6	59.5	59.3	59.4	59.4	55.0	55.0
111°	55.1	55.1	54.9	60.0	60.2	60.1	60.0	60.0	60.0	55.5	55.4
112°	55.6	55.6	55.4	60.6	60.8	60.6	60.6	60.7	60.6	56.0	55.9
113°	56.2	56.1	55.9	61.3	61.5	61.2	61.3	61.4	61.3	56.5	56.4
114°	56.7	56.7	56.4	62.0	62.2	61.9	62.0	62.1	62.0	57.1	56.9
115°	57.3	57.3	57.1	62.7	62.9	62.6	62.8	62.9	62.8	57.7	57.5
116°	58.0	58.0	57.7	63.5	63.6	63.3	63.6	63.7	63.6	58.4	58.2
117°	58.7	58.8	58.4	64.4	64.5	64.1	64.4	64.5	64.4	59.0	58.9
118°	59.4	59.5	59.2	65.2	65.4	65.0	65.2	65.4	65.3	59.8	59.7
119°	60.2	60.3	60.0	66.1	66.2	65.9	66.1	66.3	66.2	60.6	60.5
120°	61.0	61.1	60.8	66.9	67.1	66.7	66.9	67.1	67.0	61.4	61.4
121°	61.7	61.8	61.6	67.7	67.8	67.6	67.6	67.8	67.7	62.2	62.2
122°	62.5	62.4	62.3	68.4	68.5	68.4	68.2	68.4	68.5	63.0	62.9
123°	63.3	63.2	63.2	69.2	69.2	69.2	69.0	69.2	69.3	63.8	63.7
124°	64.2	64.0	64.0	70.1	70.1	70.0	69.9	70.0	70.2	64.6	64.6
125°	65.1	64.9	64.9	71.0	71.0	70.9	70.8	70.9	71.0	65.5	65.5
126°	66.0	65.8	65.8	71.9	71.8	71.7	71.6	71.7	71.9	66.3	66.4
127°	66.9	66.7	66.7	72.8	72.6	72.5	72.4	72.5	72.7	67.2	67.3
128°	67.8	67.6	67.6	73.6	73.4	73.3	73.2	73.3	73.5	68.0	68.2
129°	68.7	68.5	68.4	74.4	74.2	74.1	74.0	74.1	74.3	68.8	69.0
130°	69.5	69.3	69.3	75.2	75.0	74.9	74.8	75.0	75.1	69.6	69.8
131°	70.3	70.1	70.1	76.0	75.8	75.7	75.7	75.8	76.0	70.4	70.6
132°	71.1	70.9	70.9	76.8	76.6	76.5	76.5	76.6	76.8	71.1	71.4
133°	71.8	71.7	71.6	77.6	77.4	77.3	77.3	77.4	77.5	71.7	72.1
134°	72.6	72.6	72.4	78.4	78.2	78.1	78.0	78.2	78.3	72.5	72.9



TEST NUMBER: P295279

CATALOG NUMBER: UHB-30-UNV-L850-CD-U

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
135°	73.3	73.4	73.1	79.1	78.9	78.8	78.8	79.0	79.0	73.1	73.7
136°	74.1	74.1	73.9	79.8	79.7	79.6	79.6	79.8	79.8	73.8	74.5
137°	74.8	74.8	74.6	80.6	80.4	80.4	80.3	80.6	80.6	75.0	75.2
138°	75.6	75.5	75.4	81.3	81.3	81.2	81.2	81.4	81.4	75.8	75.8
139°	76.4	76.2	76.2	82.0	82.0	82.0	82.0	82.1	82.2	76.5	76.4
140°	77.1	77.0	76.9	82.6	82.8	82.8	82.8	83.0	83.0	77.0	77.1
141°	77.8	77.7	77.7	83.3	83.6	83.6	83.6	83.8	83.8	77.8	77.8
142°	78.6	78.5	78.5	84.1	84.4	84.4	84.4	84.6	84.6	78.6	78.6
143°	79.4	79.3	79.2	84.9	85.2	85.2	85.2	85.4	85.4	79.4	79.4
144°	80.2	80.1	80.0	85.7	85.8	85.9	85.9	86.0	86.1	79.9	80.1
145°	81.0	80.8	80.7	86.4	86.5	86.6	86.5	86.7	86.8	80.6	80.9
146°	81.6	81.4	81.4	87.1	87.2	87.3	87.2	87.4	87.4	81.6	81.7
147°	82.4	82.2	82.4	87.9	87.9	88.0	87.9	88.1	88.2	82.5	82.5
148°	83.3	83.1	83.2	88.6	88.6	88.8	88.6	88.8	88.8	83.2	83.3
149°	84.1	83.9	83.8	89.4	89.3	89.5	89.4	89.5	89.5	83.9	84.2
150°	85.0	84.7	84.6	90.2	90.0	90.2	90.1	90.2	90.3	84.8	85.1
151°	85.8	85.5	85.6	91.0	90.8	90.9	90.8	91.0	91.0	85.6	86.0
152°	86.7	86.4	86.4	91.8	91.6	91.6	91.6	91.7	91.8	86.6	86.8
153°	87.6	87.3	87.3	92.6	92.4	92.4	92.3	92.4	92.5	87.4	87.7
154°	88.4	88.1	88.2	93.4	93.1	93.2	93.1	93.2	93.2	88.3	88.6
155°	89.2	89.0	89.0	94.2	93.8	93.9	93.8	93.9	93.9	89.1	89.4
156°	90.1	89.8	89.9	94.9	94.5	94.6	94.4	94.6	94.5	89.9	90.3
157°	91.0	90.7	90.8	95.5	95.0	95.2	95.0	95.2	95.1	90.8	91.2
158°	91.9	91.6	91.7	96.1	95.6	95.7	95.6	95.7	95.7	91.7	92.0
159°	92.7	92.4	92.5	96.5	96.0	96.1	96.1	96.2	96.1	92.6	92.9
160°	93.5	93.2	93.3	97.0	96.5	96.6	96.5	96.6	96.6	93.4	93.7
161°	94.4	94.0	94.2	97.4	96.8	97.0	96.9	97.0	96.9	94.2	94.5
162°	95.2	94.9	95.0	97.8	97.3	97.4	97.3	97.4	97.4	95.0	95.4
163°	96.0	95.7	95.8	98.2	97.7	97.8	97.7	97.8	97.8	95.8	96.2
164°	96.8	96.5	96.7	98.6	98.2	98.3	98.2	98.3	98.2	96.5	97.0
165°	97.6	97.3	97.4	99.0	98.6	98.7	98.5	98.7	98.6	97.2	97.8
166°	98.4	98.0	98.2	99.3	98.9	99.0	98.7	98.9	98.8	98.0	98.5
167°	99.0	98.6	98.7	99.6	99.2	99.2	99.0	99.1	99.0	98.7	99.2
168°	99.4	98.9	99.0	99.8	99.4	99.4	99.1	99.2	99.1	99.2	99.7
169°	99.6	99.2	99.5	100.0	99.6	99.5	99.2	99.4	99.2	99.6	100.0
170°	99.9	99.6	99.9	100.3	99.9	99.8	99.6	99.7	99.6	100.0	100.2
171°	100.4	100.0	100.3	100.7	100.3	100.2	100.0	100.1	99.9	100.4	100.5
172°	100.7	100.4	100.6	101.0	100.6	100.6	100.3	100.4	100.3	100.7	100.9
173°	100.9	100.6	100.8	101.3	100.9	100.9	100.5	100.7	100.4	100.9	101.1
174°	101.7	101.3	101.6	101.5	101.1	101.1	100.7	100.9	100.6	101.7	101.9
175°	101.9	101.6	101.8	101.7	101.2	101.3	100.8	100.9	100.7	101.8	102.1
176°	102.0	101.7	101.9	101.8	101.4	101.5	101.0	101.1	100.8	102.0	102.3
177°	102.4	102.0	102.2	102.0	101.6	101.7	101.1	101.2	101.0	102.4	102.6
178°	102.5	102.1	102.3	102.2	101.9	101.9	101.4	101.4	101.2	102.6	102.8
179°	102.5	102.1	102.3	102.7	102.2	102.4	101.7	101.8	101.5	102.7	103.0



TEST NUMBER: P295279

CATALOG NUMBER: UHB-30-UNV-L850-CD-U

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
180°	102.1	102.1	102.1	102.1	102.1	102.1	102.1	102.1	102.1	102.1	102.1



TEST NUMBER: P295279

CATALOG NUMBER: UHB-30-UNV-L850-CD-U

CANDELA DISTRIBUTION (continued):

	330°	360°
0°	13879.0	13879.0
1°	13908.0	13910.6
2°	13900.7	13907.0
3°	13889.2	13898.2
4°	13872.6	13885.6
5°	13852.5	13869.4
6°	13828.2	13848.2
7°	13801.0	13823.4
8°	13769.7	13793.8
9°	13733.9	13760.2
10°	13694.1	13723.7
11°	13650.0	13681.8
12°	13602.7	13636.5
13°	13550.5	13586.4
14°	13494.7	13532.3
15°	13434.0	13473.9
16°	13369.3	13412.0
17°	13298.8	13343.9
18°	13222.2	13270.1
19°	13141.7	13190.7
20°	13056.5	13106.0
21°	12965.1	13016.8
22°	12868.9	12921.0
23°	12766.5	12818.8
24°	12659.6	12712.3
25°	12547.0	12599.5
26°	12427.0	12481.7
27°	12301.5	12357.8
28°	12170.1	12224.0
29°	12031.1	12085.6
30°	11884.4	11939.5
31°	11732.3	11785.0
32°	11570.6	11623.6
33°	11403.0	11454.7
34°	11225.1	11273.5
35°	11038.9	11086.0
36°	10845.5	10889.8
37°	10643.1	10683.3
38°	10434.6	10468.3
39°	10214.3	10243.6
40°	9985.1	10012.3
41°	9748.7	9770.5
42°	9504.1	9525.7
43°	9256.2	9274.3
44°	8991.6	9011.1



TEST NUMBER: P295279

CATALOG NUMBER: UHB-30-UNV-L850-CD-U

CANDELA DISTRIBUTION (continued):

	330°	360°
45°	8725.7	8746.2
46°	8452.6	8473.2
47°	8174.7	8194.9
48°	7885.5	7911.1
49°	7586.7	7616.9
50°	7281.2	7321.4
51°	6963.5	7012.4
52°	6640.3	6703.5
53°	6308.4	6381.7
54°	5962.9	6045.3
55°	5605.0	5703.0
56°	5225.1	5337.0
57°	4833.6	4963.5
58°	4422.9	4565.0
59°	4012.0	4157.2
60°	3600.4	3742.2
61°	3198.8	3328.3
62°	2832.9	2967.7
63°	2486.4	2607.2
64°	2175.8	2249.1
65°	1893.9	1964.2
66°	1647.7	1717.5
67°	1428.2	1500.6
68°	1230.6	1302.0
69°	1084.5	1130.7
70°	939.2	971.5
71°	793.9	837.2
72°	681.1	718.1
73°	587.2	607.0
74°	503.8	514.2
75°	422.7	435.0
76°	360.0	369.3
77°	305.4	311.5
78°	262.2	273.1
79°	223.8	234.7
80°	189.4	196.4
81°	159.1	166.5
82°	130.6	138.0
83°	104.2	110.5
84°	89.8	87.7
85°	75.6	73.0
86°	61.4	63.9
87°	56.2	56.8
88°	54.8	55.2
89°	52.7	53.3



TEST NUMBER: P295279

CATALOG NUMBER: UHB-30-UNV-L850-CD-U

CANDELA DISTRIBUTION (continued):

	330°	360°
90°	51.4	51.3
91°	51.4	51.2
92°	51.3	51.2
93°	51.3	51.2
94°	51.2	51.1
95°	51.2	51.1
96°	51.2	51.2
97°	51.2	51.2
98°	51.3	51.2
99°	51.4	51.3
100°	51.5	51.4
101°	51.7	51.6
102°	51.8	51.7
103°	52.1	51.9
104°	52.4	52.2
105°	52.7	52.6
106°	53.0	52.9
107°	53.4	53.3
108°	53.8	53.7
109°	54.2	54.2
110°	54.7	54.6
111°	55.2	55.1
112°	55.7	55.6
113°	56.2	56.2
114°	56.8	56.7
115°	57.4	57.3
116°	58.0	58.0
117°	58.7	58.7
118°	59.5	59.4
119°	60.3	60.2
120°	61.1	61.0
121°	61.8	61.7
122°	62.6	62.5
123°	63.5	63.3
124°	64.3	64.2
125°	65.2	65.1
126°	66.1	66.0
127°	66.9	66.9
128°	67.8	67.8
129°	68.6	68.7
130°	69.4	69.5
131°	70.2	70.3
132°	71.0	71.1
133°	71.8	71.8
134°	72.6	72.6



TEST NUMBER: P295279

CATALOG NUMBER: UHB-30-UNV-L850-CD-U

CANDELA DISTRIBUTION (continued):

	330°	360°
135°	73.4	73.3
136°	74.3	74.1
137°	75.0	74.8
138°	75.7	75.6
139°	76.6	76.4
140°	77.2	77.1
141°	77.9	77.8
142°	78.6	78.6
143°	79.4	79.4
144°	80.3	80.2
145°	81.0	81.0
146°	81.6	81.6
147°	82.4	82.4
148°	83.4	83.3
149°	84.2	84.1
150°	85.0	85.0
151°	85.9	85.8
152°	86.8	86.7
153°	87.6	87.6
154°	88.5	88.4
155°	89.3	89.2
156°	90.1	90.1
157°	91.1	91.0
158°	91.9	91.9
159°	92.7	92.7
160°	93.5	93.5
161°	94.3	94.4
162°	95.2	95.2
163°	96.0	96.0
164°	96.8	96.8
165°	97.6	97.6
166°	98.3	98.4
167°	99.0	99.0
168°	99.3	99.4
169°	99.5	99.6
170°	99.9	99.9
171°	100.3	100.4
172°	100.6	100.7
173°	100.8	100.9
174°	101.5	101.7
175°	101.8	101.9
176°	101.9	102.0
177°	102.2	102.4
178°	102.3	102.5
179°	102.4	102.5



TEST NUMBER: P295279

CATALOG NUMBER: UHB-30-UNV-L850-CD-U

CANDELA DISTRIBUTION (continued):

	330°	360°
180°	102.1	102.1

(END OF REPORT)