

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: P295275

Luminaire Tested: **UHB-18-UNV-L850-CD-U**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P295275
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-18-UNV-L850-CD-U
Description: UHB 150W 5000K ROUND HIGH BAY LED WITH CLEAR RING LENS
Light Source: 5000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

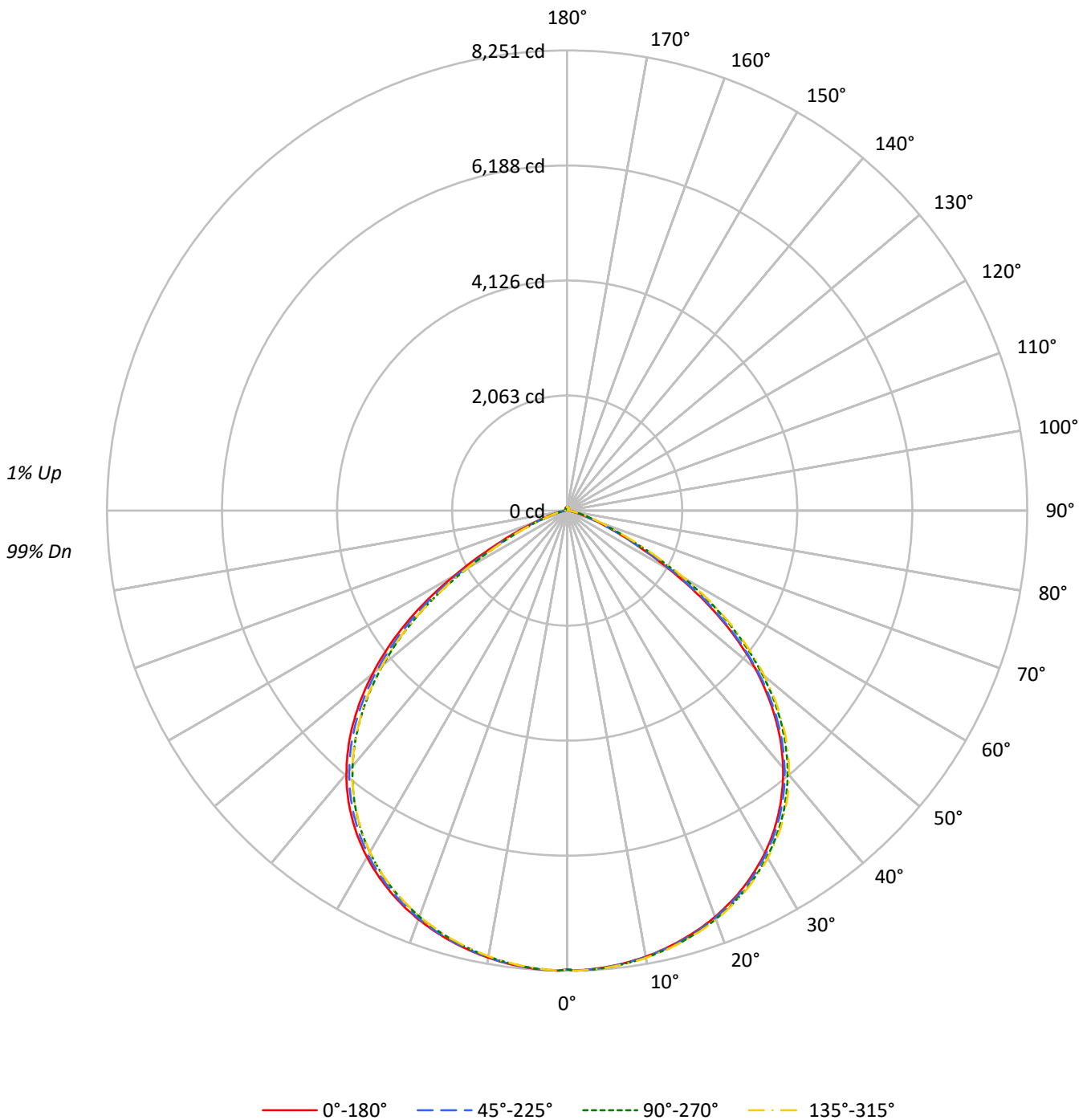
Lumens per Lamp: N/A
Luminaire Lumens: 19654.2 lumens
Efficiency: N/A
Efficacy: 131.0 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.28 / 1.36
Luminous Opening: Circular (Dia: 0.29m x H: 0m)
CIE Type: Direct

Input Watts (W): 150
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	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	84	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	67	63	59	57								
5	80	68	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	42	67	55	48	42	54	47	42	52	46	42	51	45	41	39								
8	64	52	44	38	63	51	43	38	49	43	38	48	42	37	47	41	37	35								
9	60	47	40	34	59	47	39	34	46	39	34	44	38	34	43	38	34	32								
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	31	29								

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	124578	124578	124578	124578
5°	124838	124976	125035	124854
10°	124816	125105	125165	124851
15°	124864	125331	125389	124858
20°	124884	125577	125650	124818
25°	124647	125691	125731	124537
30°	123924	125347	125459	123713
35°	122240	124170	124338	121872
40°	119060	121574	121703	118299
45°	113224	116534	116377	112005
50°	103553	107729	107310	101747
55°	88004	93924	93204	85882
60°	64794	72570	71017	62614
65°	41200	46327	46312	40058
70°	24758	28002	28604	24226
75°	14571	17215	16847	14302
80°	8579	10532	10610	8344
85°	6653	7695	7417	6306



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	781.8	4.0
10°-20°	2254.3	11.5
20°-30°	3452.4	17.6
30°-40°	4160.7	21.2
40°-50°	4105.5	20.9
50°-60°	3025.2	15.4
60°-70°	1253.9	6.4
70°-80°	307.0	1.6
80°-90°	54.2	0.3
90°-100°	34.3	0.2
100°-110°	34.9	0.2
110°-120°	36.4	0.2
120°-130°	37.2	0.2
130°-140°	35.8	0.2
140°-150°	32.1	0.2
150°-160°	25.7	0.1
160°-170°	16.8	0.1
170°-180°	5.9	0.0
0°-30°	6488.5	33.0
0°-40°	10649.2	54.2
0°-60°	17779.9	90.5
0°-90°	19395.0	98.7
90°-120°	105.6	0.5
90°-150°	210.7	1.1
90°-180°	259.0	1.3
0°-180°	19654.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	8229	8229	8229	8229	8229	
5°	8214	8224	8227	8216	8214	781
15°	7966	7996	8000	7966	7966	2250
25°	7462	7524	7527	7455	7462	3438
35°	6614	6718	6728	6594	6614	4129
45°	5288	5443	5436	5231	5288	4057
55°	3334	3558	3531	3254	3334	2948
65°	1150	1293	1293	1118	1150	1198
75°	249	294	288	244	249	288
85°	38	44	43	36	38	42
90°	31	32	32	31	31	17
95°	31	32	32	31	31	25
105°	32	34	34	32	32	34
115°	35	38	38	35	35	35
125°	40	43	43	40	40	36
135°	45	48	48	45	45	35
145°	50	53	52	49	50	31
155°	55	57	57	54	55	25
165°	60	60	60	59	60	17
175°	62	62	61	62	62	6
180°	62	62	62	62	62	



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CANDELA DISTRIBUTION (FULL):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
0°	8228.6	8228.6	8228.6	8228.6	8228.6	8228.6	8228.6	8228.6	8228.6	8228.6	8228.6
1°	8247.8	8247.9	8248.9	8250.1	8250.6	8251.3	8250.6	8250.1	8249.0	8248.3	8248.1
2°	8243.0	8242.8	8245.4	8247.4	8247.9	8249.2	8248.3	8247.7	8245.1	8243.3	8243.0
3°	8235.8	8235.2	8239.0	8241.9	8242.5	8245.2	8243.6	8242.9	8239.2	8236.5	8236.0
4°	8226.4	8225.5	8230.7	8234.2	8235.1	8238.2	8236.9	8236.2	8230.5	8227.4	8226.0
5°	8214.4	8213.4	8219.4	8223.5	8224.8	8229.1	8227.4	8226.2	8219.7	8215.5	8214.2
6°	8199.8	8198.9	8206.2	8211.4	8212.4	8217.2	8214.9	8214.2	8206.4	8200.9	8199.7
7°	8183.3	8182.8	8190.8	8196.5	8197.0	8203.3	8200.0	8199.5	8190.8	8184.7	8182.8
8°	8163.9	8164.0	8172.9	8179.3	8180.3	8187.0	8182.8	8182.3	8173.0	8165.7	8163.7
9°	8142.6	8143.0	8153.0	8159.4	8160.6	8168.4	8163.3	8163.1	8152.2	8144.7	8142.6
10°	8119.1	8119.4	8131.5	8137.9	8139.4	8147.4	8141.8	8141.2	8129.8	8121.4	8118.5
11°	8093.4	8094.2	8106.8	8113.9	8115.0	8123.8	8117.6	8117.1	8104.2	8095.4	8091.8
12°	8065.0	8067.0	8081.2	8088.1	8088.8	8097.6	8091.3	8090.8	8077.1	8066.4	8063.6
13°	8035.2	8037.7	8052.1	8059.3	8060.0	8070.1	8062.9	8062.9	8047.3	8035.3	8032.5
14°	8001.8	8005.3	8020.7	8028.5	8030.2	8040.1	8033.1	8031.4	8014.7	8002.4	7998.7
15°	7966.5	7970.1	7986.9	7996.3	7996.5	8007.8	8000.0	7998.2	7979.5	7966.1	7963.8
16°	7928.6	7932.7	7950.4	7960.3	7962.0	7974.2	7964.2	7962.6	7942.2	7928.3	7925.2
17°	7888.5	7892.7	7912.2	7923.6	7923.6	7937.5	7926.6	7923.7	7902.1	7887.6	7885.1
18°	7845.1	7850.5	7871.4	7882.2	7884.5	7897.8	7886.2	7883.0	7860.1	7843.5	7840.5
19°	7800.0	7804.8	7827.7	7840.2	7842.1	7855.8	7843.5	7839.6	7814.5	7796.4	7794.6
20°	7751.4	7756.0	7780.6	7794.4	7796.7	7811.7	7798.9	7793.5	7766.7	7747.3	7745.6
21°	7699.6	7705.2	7731.0	7746.2	7748.1	7764.5	7749.9	7743.2	7715.2	7695.0	7693.5
22°	7644.4	7650.9	7678.8	7695.6	7698.0	7715.3	7699.1	7692.0	7661.7	7639.1	7638.7
23°	7587.3	7594.2	7623.4	7641.6	7644.9	7662.5	7644.4	7636.5	7604.0	7580.5	7580.8
24°	7527.1	7533.9	7565.4	7584.6	7588.6	7606.6	7587.4	7578.3	7543.5	7519.8	7520.0
25°	7461.8	7470.2	7502.6	7524.3	7528.8	7548.2	7526.7	7516.6	7479.7	7455.2	7455.1
26°	7395.6	7404.1	7439.0	7461.2	7466.8	7486.4	7463.1	7452.8	7412.4	7386.9	7387.9
27°	7323.8	7334.1	7370.1	7393.5	7401.1	7421.2	7397.7	7384.3	7341.7	7315.4	7317.4
28°	7249.0	7260.3	7297.9	7323.0	7332.3	7353.5	7327.0	7311.4	7266.7	7239.5	7241.4
29°	7171.6	7182.1	7223.0	7248.8	7260.4	7282.3	7254.3	7236.1	7190.0	7159.9	7163.9
30°	7088.8	7099.8	7142.0	7170.2	7182.7	7206.7	7176.6	7156.4	7107.0	7076.7	7080.0
31°	7003.3	7014.6	7059.9	7089.3	7102.9	7128.6	7095.6	7073.7	7021.6	6989.9	6993.2
32°	6912.5	6923.6	6969.7	7003.2	7017.6	7044.9	7010.4	6986.8	6931.0	6896.7	6901.4
33°	6818.3	6829.6	6879.2	6913.1	6929.5	6956.8	6920.5	6895.3	6837.3	6800.9	6804.9
34°	6718.4	6729.5	6781.9	6818.5	6836.0	6864.5	6827.8	6800.2	6737.0	6699.5	6705.1
35°	6614.0	6625.8	6679.6	6718.4	6737.7	6766.1	6727.5	6699.6	6632.9	6594.1	6599.4
36°	6506.6	6517.2	6574.4	6615.4	6636.2	6663.3	6626.1	6594.9	6525.2	6482.6	6490.0
37°	6392.1	6404.9	6463.7	6506.8	6529.5	6556.3	6518.3	6484.0	6410.9	6366.3	6374.7
38°	6275.8	6287.8	6346.7	6394.0	6417.7	6444.0	6404.7	6369.5	6292.3	6246.6	6255.1
39°	6152.9	6163.6	6226.0	6275.9	6300.3	6326.3	6285.0	6249.3	6167.3	6118.2	6130.8
40°	6024.3	6035.6	6099.5	6151.5	6178.1	6201.9	6158.0	6122.8	6037.8	5985.8	5999.7
41°	5889.9	5900.4	5966.5	6023.2	6049.7	6075.4	6027.3	5992.6	5903.4	5846.3	5861.6
42°	5748.4	5759.0	5827.9	5886.2	5915.6	5940.3	5887.5	5854.9	5759.8	5702.5	5718.9
43°	5603.2	5613.2	5684.0	5745.0	5775.4	5800.8	5743.7	5710.8	5612.7	5552.4	5569.3
44°	5449.4	5456.7	5532.2	5597.4	5625.9	5652.5	5593.2	5560.7	5457.6	5394.7	5409.5



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CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
45°	5288.2	5296.3	5374.2	5442.8	5471.4	5499.5	5435.5	5401.8	5296.4	5231.3	5247.8
46°	5122.7	5129.0	5210.1	5283.1	5308.8	5337.9	5272.6	5236.8	5128.2	5060.2	5080.2
47°	4948.9	4957.3	5038.9	5111.8	5140.2	5170.7	5102.7	5063.0	4951.8	4883.4	4907.0
48°	4772.1	4777.0	4860.0	4941.1	4968.1	4999.4	4926.8	4885.6	4772.5	4702.1	4729.0
49°	4587.5	4591.0	4676.2	4757.8	4788.4	4819.2	4745.4	4699.2	4583.7	4512.8	4538.4
50°	4396.6	4397.3	4487.1	4573.9	4603.9	4637.8	4556.1	4509.4	4389.1	4319.9	4345.7
51°	4197.7	4197.7	4289.0	4381.5	4413.0	4448.4	4363.9	4315.2	4187.7	4119.5	4143.8
52°	3992.9	3995.2	4089.6	4183.0	4217.8	4252.6	4162.1	4109.0	3982.8	3912.2	3937.7
53°	3782.0	3785.6	3882.4	3979.7	4016.4	4051.6	3959.6	3902.4	3770.9	3700.9	3721.1
54°	3562.0	3568.9	3671.7	3771.2	3808.8	3842.7	3746.4	3683.9	3552.5	3478.6	3495.2
55°	3334.1	3347.4	3457.0	3558.4	3592.8	3630.8	3531.1	3462.2	3332.0	3253.7	3268.3
56°	3099.9	3121.6	3240.3	3341.0	3370.7	3407.3	3303.9	3234.3	3102.3	3022.9	3036.8
57°	2862.4	2888.0	3014.3	3116.2	3144.9	3183.4	3075.4	3005.1	2865.1	2785.9	2800.9
58°	2619.0	2647.3	2771.9	2886.1	2913.5	2951.7	2835.3	2760.0	2622.9	2542.6	2565.0
59°	2375.8	2404.3	2529.4	2641.4	2673.9	2707.4	2594.2	2514.8	2371.0	2300.9	2329.1
60°	2139.9	2164.0	2286.8	2396.7	2434.0	2463.0	2345.4	2269.6	2120.0	2067.9	2092.2
61°	1909.5	1926.4	2039.1	2152.1	2190.8	2218.8	2106.8	2021.8	1872.3	1841.2	1861.6
62°	1692.3	1698.3	1799.6	1913.3	1953.3	1979.1	1878.7	1787.4	1644.7	1632.9	1649.1
63°	1493.1	1489.6	1570.8	1687.3	1729.8	1749.2	1663.5	1572.5	1437.3	1439.4	1450.7
64°	1312.9	1298.9	1368.4	1481.2	1525.2	1541.8	1465.2	1379.6	1258.5	1266.0	1276.4
65°	1150.1	1132.5	1188.4	1293.2	1339.9	1353.2	1292.8	1206.8	1116.5	1118.2	1119.1
66°	1002.7	995.8	1033.9	1124.8	1173.6	1180.7	1137.0	1053.2	975.0	982.2	982.3
67°	868.0	859.2	894.4	976.3	1037.2	1028.1	998.2	920.9	833.4	846.2	851.4
68°	749.8	743.3	773.0	845.1	901.2	887.1	859.8	799.4	722.7	734.0	737.8
69°	651.1	643.1	666.5	736.3	765.1	770.2	742.9	694.2	625.6	635.4	638.1
70°	559.3	555.4	576.2	632.6	657.6	661.9	646.2	602.3	537.4	547.3	549.0
71°	478.3	471.6	487.0	549.8	563.5	573.6	549.2	518.9	467.3	469.0	474.9
72°	403.4	406.4	416.6	471.0	487.2	493.5	475.5	436.7	397.0	402.1	402.4
73°	342.9	345.8	350.9	404.0	407.2	422.3	399.4	367.2	336.6	345.7	336.7
74°	296.0	294.4	300.4	341.3	356.7	360.9	342.3	310.9	288.0	291.6	290.3
75°	249.1	242.2	259.4	294.3	299.0	306.0	288.0	268.2	244.1	244.5	244.0
76°	202.8	201.3	218.3	247.4	249.0	265.2	242.3	225.4	206.9	203.8	197.9
77°	171.8	170.0	177.4	200.7	207.3	224.4	206.1	182.9	176.8	172.0	166.4
78°	145.5	144.7	150.1	170.3	174.4	184.0	174.7	154.1	150.0	144.4	139.3
79°	121.6	122.2	127.5	144.0	148.1	156.6	147.2	129.6	126.1	119.8	115.9
80°	98.4	100.9	106.8	120.8	123.4	131.7	121.7	107.6	101.1	95.7	92.5
81°	75.7	79.6	87.6	98.9	101.1	108.3	98.2	86.6	76.0	71.5	69.9
82°	58.4	61.7	67.5	76.4	78.8	85.1	74.8	66.4	57.7	54.8	53.8
83°	48.8	50.3	54.4	59.6	61.6	65.0	57.4	52.8	48.0	46.3	46.1
84°	43.5	44.6	47.1	49.9	50.7	51.3	48.4	46.2	42.5	40.7	41.2
85°	38.3	39.2	41.6	44.3	44.7	45.1	42.7	40.9	37.7	36.3	36.7
86°	35.4	35.7	36.9	39.0	39.1	39.5	37.4	36.5	35.5	34.9	35.0
87°	34.5	34.6	35.1	36.1	36.1	36.2	35.6	35.2	34.7	34.0	34.1
88°	33.2	33.5	34.2	35.2	35.2	35.2	34.7	34.3	33.6	32.7	32.8
89°	31.6	31.9	32.8	34.0	34.0	34.1	33.4	33.0	32.1	31.1	31.2



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CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
90°	30.9	30.9	31.2	32.5	32.5	32.6	31.8	31.6	31.5	30.9	31.0
91°	30.8	30.8	30.8	31.7	31.7	31.6	31.6	31.6	31.5	30.9	30.9
92°	30.8	30.8	30.8	31.8	31.7	31.7	31.6	31.7	31.6	30.8	30.9
93°	30.8	30.8	30.8	31.8	31.8	31.8	31.7	31.7	31.7	30.8	30.9
94°	30.8	30.8	30.8	31.9	31.9	31.9	31.8	31.8	31.8	30.8	30.9
95°	30.9	30.8	30.8	32.0	32.0	32.0	31.9	31.9	31.9	30.8	31.0
96°	30.9	30.8	30.8	32.2	32.1	32.1	32.0	32.0	32.0	30.8	31.0
97°	30.9	30.8	30.8	32.3	32.2	32.2	32.2	32.2	32.2	30.9	31.0
98°	31.0	30.8	30.8	32.4	32.4	32.4	32.3	32.3	32.3	30.9	31.1
99°	31.0	30.9	30.9	32.6	32.5	32.5	32.5	32.5	32.5	31.0	31.1
100°	31.1	31.0	31.0	32.8	32.7	32.7	32.7	32.7	32.7	31.1	31.2
101°	31.2	31.0	31.0	33.0	32.9	32.9	32.9	32.9	32.9	31.2	31.3
102°	31.3	31.2	31.1	33.2	33.1	33.1	33.1	33.1	33.1	31.3	31.4
103°	31.5	31.3	31.2	33.4	33.3	33.3	33.3	33.3	33.4	31.5	31.6
104°	31.6	31.5	31.4	33.6	33.6	33.6	33.6	33.6	33.6	31.6	31.8
105°	31.8	31.6	31.5	33.9	33.8	33.8	33.9	33.8	33.9	31.8	31.9
106°	32.1	31.8	31.7	34.2	34.2	34.1	34.2	34.1	34.3	32.1	32.2
107°	32.6	32.2	32.0	34.6	34.5	34.5	34.6	34.6	34.7	32.5	32.6
108°	33.0	32.6	32.4	35.1	35.0	34.9	35.2	35.1	35.1	32.9	32.9
109°	33.3	32.9	32.6	35.6	35.5	35.4	35.6	35.5	35.5	33.2	33.2
110°	33.6	33.2	33.0	36.0	35.9	35.8	36.0	35.9	36.0	33.4	33.5
111°	33.9	33.5	33.3	36.4	36.3	36.1	36.4	36.3	36.4	33.8	33.8
112°	34.3	33.8	33.6	36.8	36.7	36.5	36.8	36.7	36.8	34.1	34.1
113°	34.6	34.2	34.0	37.2	37.0	36.9	37.2	37.1	37.2	34.4	34.5
114°	35.0	34.5	34.3	37.6	37.4	37.3	37.6	37.5	37.6	34.8	34.9
115°	35.3	34.9	34.7	38.1	37.9	37.8	38.1	38.0	38.1	35.2	35.3
116°	35.6	35.3	35.1	38.6	38.3	38.3	38.6	38.5	38.6	35.6	35.7
117°	36.0	35.8	35.6	39.1	38.8	38.8	39.1	39.0	39.1	36.0	36.1
118°	36.4	36.3	36.0	39.6	39.4	39.4	39.7	39.6	39.6	36.5	36.6
119°	36.8	36.8	36.5	40.2	39.9	39.9	40.2	40.1	40.2	37.0	37.1
120°	37.3	37.3	37.0	40.7	40.4	40.4	40.7	40.6	40.7	37.5	37.6
121°	37.8	37.8	37.5	41.3	40.9	41.0	41.3	41.2	41.2	38.0	38.1
122°	38.4	38.4	38.1	41.8	41.5	41.5	41.8	41.7	41.8	38.5	38.6
123°	39.0	38.9	38.6	42.4	42.0	42.0	42.3	42.3	42.3	39.0	39.0
124°	39.5	39.4	39.2	42.9	42.6	42.6	42.8	42.8	42.8	39.4	39.5
125°	40.0	39.9	39.6	43.4	43.2	43.1	43.2	43.2	43.3	39.8	40.0
126°	40.5	40.4	40.2	43.8	43.6	43.6	43.5	43.6	43.8	40.3	40.6
127°	41.0	40.9	40.7	44.3	44.1	44.1	43.9	44.0	44.3	40.8	41.1
128°	41.6	41.4	41.2	44.8	44.6	44.5	44.4	44.5	44.7	41.3	41.6
129°	42.1	42.0	41.8	45.2	45.1	45.0	44.8	44.9	45.2	41.8	42.2
130°	42.6	42.5	42.3	45.8	45.6	45.5	45.3	45.3	45.6	42.2	42.6
131°	43.1	43.0	42.8	46.3	46.1	45.9	45.8	45.8	46.1	42.8	43.1
132°	43.6	43.5	43.3	46.8	46.6	46.4	46.3	46.3	46.5	43.3	43.6
133°	44.1	44.0	43.8	47.3	47.0	46.9	46.7	46.8	47.0	43.7	44.0
134°	44.6	44.5	44.3	47.8	47.5	47.3	47.2	47.2	47.4	44.1	44.5



TEST NUMBER: P295275

CATALOG NUMBER: UHB-18-UNV-L850-CD-U

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
135°	45.1	45.0	44.8	48.2	47.9	47.7	47.6	47.6	47.9	44.6	44.9
136°	45.5	45.4	45.3	48.7	48.3	48.1	48.0	48.1	48.3	45.0	45.3
137°	46.0	45.9	45.8	49.2	48.7	48.6	48.4	48.6	48.7	45.4	45.8
138°	46.5	46.4	46.3	49.6	49.2	49.0	48.9	49.0	49.2	45.9	46.2
139°	47.0	46.9	46.8	50.1	49.6	49.5	49.3	49.5	49.8	46.3	46.7
140°	47.5	47.4	47.3	50.5	50.1	49.9	49.8	50.0	50.3	46.7	47.1
141°	48.0	47.9	47.9	51.0	50.6	50.4	50.3	50.5	50.8	47.2	47.5
142°	48.5	48.4	48.4	51.5	51.1	51.0	50.9	51.0	51.2	47.7	48.0
143°	49.1	49.0	48.9	52.0	51.5	51.5	51.5	51.6	51.7	48.2	48.5
144°	49.6	49.5	49.4	52.5	52.0	51.9	52.0	52.1	52.2	48.7	48.9
145°	50.1	50.0	49.9	52.9	52.4	52.4	52.5	52.6	52.7	49.1	49.4
146°	50.6	50.5	50.3	53.4	52.9	52.8	53.0	53.1	53.2	49.6	49.9
147°	51.1	50.9	50.7	53.8	53.4	53.3	53.4	53.6	53.7	50.2	50.4
148°	51.5	51.4	51.2	54.2	53.9	53.7	53.8	54.0	54.1	50.6	50.9
149°	52.0	51.8	51.7	54.6	54.4	54.1	54.3	54.4	54.5	51.1	51.4
150°	52.5	52.2	52.1	55.1	54.8	54.5	54.7	54.9	54.9	51.6	51.9
151°	53.0	52.7	52.5	55.5	55.2	55.0	55.1	55.3	55.4	52.1	52.4
152°	53.4	53.2	53.0	56.0	55.7	55.5	55.5	55.8	55.8	52.6	53.0
153°	53.9	53.6	53.5	56.5	56.2	55.9	55.9	56.2	56.2	53.1	53.5
154°	54.4	54.1	54.0	57.0	56.6	56.4	56.4	56.6	56.7	53.6	54.0
155°	54.8	54.6	54.4	57.4	57.1	56.9	56.8	57.0	57.1	54.1	54.5
156°	55.3	55.1	55.0	57.9	57.5	57.3	57.2	57.5	57.5	54.6	55.1
157°	55.8	55.6	55.5	58.3	57.9	57.7	57.6	57.8	57.9	55.2	55.6
158°	56.3	56.1	56.0	58.7	58.3	58.1	57.9	58.1	58.2	55.7	56.1
159°	56.8	56.5	56.4	59.0	58.6	58.4	58.2	58.4	58.4	56.3	56.6
160°	57.3	57.0	56.9	59.3	58.8	58.7	58.5	58.6	58.6	56.8	57.1
161°	57.7	57.5	57.4	59.6	59.1	59.0	58.7	58.8	58.7	57.2	57.6
162°	58.2	57.9	57.9	59.8	59.4	59.2	58.9	58.9	58.9	57.7	58.1
163°	58.7	58.4	58.3	60.0	59.6	59.4	59.1	59.2	59.1	58.2	58.6
164°	59.1	58.8	58.8	60.2	59.8	59.7	59.4	59.4	59.3	58.7	59.1
165°	59.6	59.3	59.3	60.5	60.1	59.9	59.6	59.6	59.5	59.2	59.6
166°	60.0	59.8	59.7	60.6	60.2	60.1	59.8	59.8	59.7	59.7	60.1
167°	60.5	60.1	60.0	60.8	60.4	60.3	60.0	60.0	59.9	60.1	60.5
168°	60.8	60.3	60.2	60.9	60.6	60.4	60.1	60.1	59.9	60.2	60.8
169°	60.8	60.5	60.5	61.0	60.7	60.5	60.2	60.1	60.0	60.5	61.1
170°	61.0	60.7	60.8	61.2	60.8	60.7	60.4	60.3	60.2	60.8	61.2
171°	61.2	61.0	61.0	61.4	61.0	60.9	60.6	60.5	60.4	61.0	61.3
172°	61.4	61.1	61.2	61.6	61.3	61.1	60.8	60.7	60.5	61.2	61.5
173°	61.5	61.2	61.3	61.7	61.4	61.3	60.9	60.8	60.7	61.3	61.6
174°	61.8	61.5	61.6	61.8	61.6	61.4	61.0	60.9	60.8	61.6	61.9
175°	61.9	61.6	61.7	61.9	61.6	61.5	61.1	61.0	60.8	61.7	62.0
176°	62.0	61.7	61.8	62.0	61.6	61.5	61.1	61.0	60.8	61.7	62.2
177°	62.0	61.8	61.8	62.0	61.8	61.6	61.3	61.1	60.9	62.0	62.4
178°	62.1	61.8	61.7	62.2	61.9	61.9	61.4	61.3	61.1	62.2	62.6
179°	62.2	61.8	61.6	62.5	62.2	62.2	61.6	61.5	61.4	62.3	62.7



TEST NUMBER: P295275

CATALOG NUMBER: UHB-18-UNV-L850-CD-U

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
180°	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9



TEST NUMBER: P295275

CATALOG NUMBER: UHB-18-UNV-L850-CD-U

CANDELA DISTRIBUTION (continued):

	330°	360°
0°	8228.6	8228.6
1°	8247.1	8247.8
2°	8241.7	8243.0
3°	8233.4	8235.8
4°	8223.4	8226.4
5°	8210.2	8214.4
6°	8195.8	8199.8
7°	8177.9	8183.3
8°	8158.0	8163.9
9°	8136.0	8142.6
10°	8111.6	8119.1
11°	8084.3	8093.4
12°	8055.2	8065.0
13°	8023.5	8035.2
14°	7990.5	8001.8
15°	7953.8	7966.5
16°	7915.0	7928.6
17°	7874.0	7888.5
18°	7829.5	7845.1
19°	7783.5	7800.0
20°	7733.0	7751.4
21°	7681.4	7699.6
22°	7625.5	7644.4
23°	7567.5	7587.3
24°	7506.8	7527.1
25°	7441.4	7461.8
26°	7373.6	7395.6
27°	7300.3	7323.8
28°	7224.0	7249.0
29°	7144.4	7171.6
30°	7060.1	7088.8
31°	6972.5	7003.3
32°	6879.9	6912.5
33°	6784.0	6818.3
34°	6683.4	6718.4
35°	6578.3	6614.0
36°	6469.2	6506.6
37°	6355.5	6392.1
38°	6235.6	6275.8
39°	6111.2	6152.9
40°	5980.4	6024.3
41°	5844.2	5889.9
42°	5700.4	5748.4
43°	5554.5	5603.2
44°	5399.2	5449.4



TEST NUMBER: P295275

CATALOG NUMBER: UHB-18-UNV-L850-CD-U

CANDELA DISTRIBUTION (continued):

	330°	360°
45°	5236.1	5288.2
46°	5068.8	5122.7
47°	4895.6	4948.9
48°	4715.4	4772.1
49°	4529.0	4587.5
50°	4335.2	4396.6
51°	4136.0	4197.7
52°	3930.6	3992.9
53°	3711.6	3782.0
54°	3488.1	3562.0
55°	3257.9	3334.1
56°	3025.4	3099.9
57°	2787.4	2862.4
58°	2538.1	2619.0
59°	2293.0	2375.8
60°	2055.2	2139.9
61°	1829.6	1909.5
62°	1618.3	1692.3
63°	1426.0	1493.1
64°	1254.2	1312.9
65°	1110.8	1150.1
66°	967.5	1002.7
67°	824.2	868.0
68°	713.8	749.8
69°	617.0	651.1
70°	528.5	559.3
71°	455.2	478.3
72°	384.7	403.4
73°	327.3	342.9
74°	275.8	296.0
75°	232.7	249.1
76°	197.1	202.8
77°	166.4	171.8
78°	139.3	145.5
79°	115.9	121.6
80°	92.5	98.4
81°	69.2	75.7
82°	53.6	58.4
83°	46.3	48.8
84°	41.3	43.5
85°	36.8	38.3
86°	35.1	35.4
87°	34.1	34.5
88°	32.7	33.2
89°	31.1	31.6



TEST NUMBER: P295275

CATALOG NUMBER: UHB-18-UNV-L850-CD-U

CANDELA DISTRIBUTION (continued):

	330°	360°
90°	30.9	30.9
91°	30.9	30.8
92°	30.9	30.8
93°	30.9	30.8
94°	30.9	30.8
95°	30.9	30.9
96°	30.9	30.9
97°	31.0	30.9
98°	31.0	31.0
99°	31.1	31.0
100°	31.2	31.1
101°	31.3	31.2
102°	31.4	31.3
103°	31.6	31.5
104°	31.7	31.6
105°	31.9	31.8
106°	32.2	32.1
107°	32.6	32.6
108°	32.9	33.0
109°	33.2	33.3
110°	33.5	33.6
111°	33.8	33.9
112°	34.1	34.3
113°	34.5	34.6
114°	34.9	35.0
115°	35.3	35.3
116°	35.7	35.6
117°	36.2	36.0
118°	36.6	36.4
119°	37.1	36.8
120°	37.6	37.3
121°	38.1	37.8
122°	38.6	38.4
123°	39.2	39.0
124°	39.7	39.5
125°	40.2	40.0
126°	40.7	40.5
127°	41.2	41.0
128°	41.7	41.6
129°	42.2	42.1
130°	42.7	42.6
131°	43.2	43.1
132°	43.7	43.6
133°	44.2	44.1
134°	44.6	44.6



TEST NUMBER: P295275

CATALOG NUMBER: UHB-18-UNV-L850-CD-U

CANDELA DISTRIBUTION (continued):

	330°	360°
135°	45.1	45.1
136°	45.5	45.5
137°	46.0	46.0
138°	46.5	46.5
139°	46.9	47.0
140°	47.4	47.5
141°	47.9	48.0
142°	48.4	48.5
143°	48.8	49.1
144°	49.3	49.6
145°	49.8	50.1
146°	50.2	50.6
147°	50.7	51.1
148°	51.3	51.5
149°	51.7	52.0
150°	52.2	52.5
151°	52.7	53.0
152°	53.2	53.4
153°	53.7	53.9
154°	54.2	54.4
155°	54.7	54.8
156°	55.2	55.3
157°	55.8	55.8
158°	56.3	56.3
159°	56.8	56.8
160°	57.3	57.3
161°	57.7	57.7
162°	58.2	58.2
163°	58.7	58.7
164°	59.2	59.1
165°	59.6	59.6
166°	60.1	60.0
167°	60.4	60.5
168°	60.7	60.8
169°	60.8	60.8
170°	60.9	61.0
171°	61.1	61.2
172°	61.3	61.4
173°	61.4	61.5
174°	61.7	61.8
175°	61.8	61.9
176°	61.9	62.0
177°	62.2	62.0
178°	62.3	62.1
179°	62.3	62.2



TEST NUMBER: P295275

CATALOG NUMBER: UHB-18-UNV-L850-CD-U

CANDELA DISTRIBUTION (continued):

	330°	360°
180°	61.9	61.9

(END OF REPORT)