

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: METALUX

Report Number: P1444507

Luminaire Tested: EHBR1-18-UNV-TA-L835-UPL15

Issue Date: 5/1/2026

Test Information

Test Method: LM-79-2019
Report Number: P1444507
REPORT IS A COMBINATION OF REPORTS P1444310 AND P1431635
Test Lab: INNOVATION CENTER
Issue Date: 5/1/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: EHBR1-18-UNV-TA-L835-UPL15
Description: Elevate Round Highbay at, 18000 lumens, 3500K 80CRI LEDs with TA lens
Light Source: -
Ballast/Driver: -

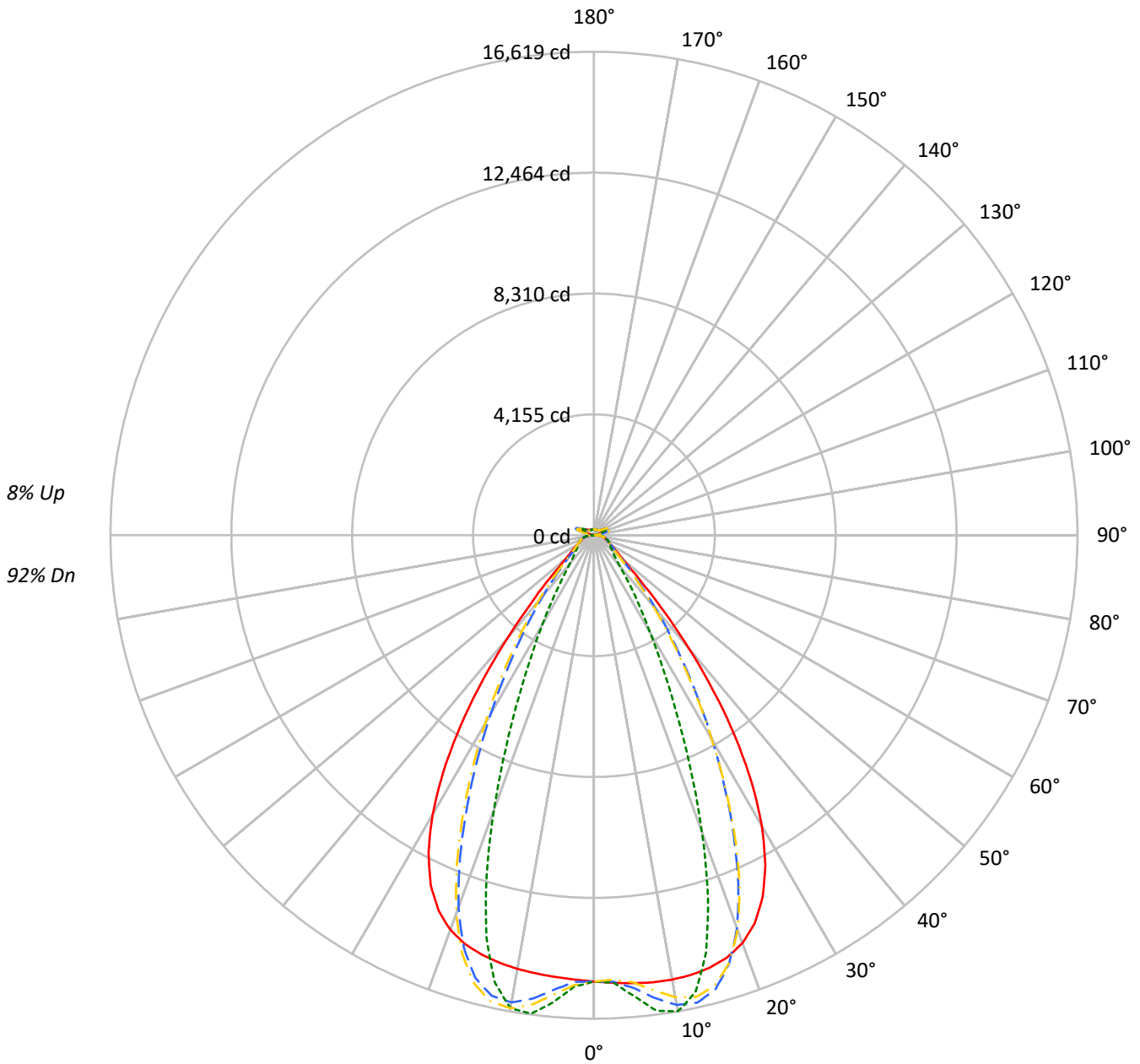
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19203.3 lumens
Efficiency: N/A
Efficacy: 184.6 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 0.77 / 0.88
Luminous Opening: Vertical Cylinder (Dia: 1.71' x H: 0.1')
CIE Type: Direct

Input Watts (W): 104
Input Voltage (V): NR
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: 24 FT

TEST NUMBER: P1444507
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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				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	95	95	95	92
1	110	106	103	101	107	104	101	98	98	96	94	93	91	89	88	87	86	88	87	86	83
2	103	97	92	88	100	95	90	87	90	87	83	86	83	80	82	80	78	82	80	78	75
3	97	89	83	79	94	87	82	77	83	79	75	80	76	73	76	73	71	76	73	71	69
4	91	82	76	71	88	80	74	70	77	72	68	74	70	66	71	68	65	71	68	65	63
5	86	76	69	64	83	75	68	64	72	66	62	69	65	61	67	63	60	67	63	60	58
6	81	71	64	59	79	69	63	58	67	61	57	65	60	56	63	59	55	63	59	55	54
7	76	66	59	54	74	65	58	54	63	57	53	61	56	52	59	55	51	59	55	51	50
8	72	62	55	50	70	61	54	50	59	53	49	57	52	49	55	51	48	55	51	48	46
9	68	58	51	47	67	57	51	47	55	50	46	54	49	45	52	48	45	52	48	45	43
10	65	54	48	44	63	54	48	43	52	47	43	51	46	42	50	45	42	50	45	42	41

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	72040	72040	72040	72040
5°	72389	74500	71376	75476
10°	72994	78219	71243	77702
15°	73351	70905	71119	68050
20°	72593	52822	70217	48873
25°	68712	33407	66441	30311
30°	60026	20075	57701	18346
35°	46196	12598	43539	11159
40°	29223	7902	26736	7425
45°	15062	6156	14812	6055
50°	8831	5475	8560	5390
55°	6766	5181	6515	5134
60°	5724	5292	5481	5223
65°	5377	5526	5171	5337
70°	5254	5787	4992	5570
75°	5616	6138	5313	5867
80°	5811	6796	5269	6205
85°	5473	6555	4422	5615

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 25°
 Vertical Angle: 45°
 Luminance: 23051 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1511.8	7.9
10°-20°	4253.0	22.1
20°-30°	4843.8	25.2
30°-40°	3481.5	18.1
40°-50°	1605.7	8.4
50°-60°	768.4	4.0
60°-70°	560.6	2.9
70°-80°	425.9	2.2
80°-90°	196.3	1.0
90°-100°	44.3	0.2
100°-110°	256.0	1.3
110°-120°	473.0	2.5
120°-130°	289.0	1.5
130°-140°	185.2	1.0
140°-150°	136.9	0.7
150°-160°	95.1	0.5
160°-170°	57.2	0.3
170°-180°	19.6	0.1
0°-30°	10608.6	55.2
0°-40°	14090.1	73.4
0°-60°	16464.1	85.7
0°-90°	17647.0	91.9
90°-120°	773.3	4.0
90°-150°	1384.4	7.2
90°-180°	1556.0	8.1
0°-180°	19203.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	15340	15340	15340	15340	15340	
5°	15456	15907	15240	16115	15456	1477
15°	15389	14876	14920	14277	15389	4336
25°	13722	6671	13268	6053	13722	6220
35°	8479	2312	7991	2048	8479	5204
45°	2437	996	2397	980	2437	2073
55°	914	700	880	694	914	844
65°	561	577	540	557	561	561
75°	396	432	374	413	396	411
85°	188	225	152	193	188	177
90°	53	66	17	20	53	33
95°	20	23	20	23	20	19
105°	92	119	62	119	92	122
115°	412	500	432	500	412	381
125°	310	325	350	326	310	282
135°	243	216	261	217	243	189
145°	215	209	229	211	215	136
155°	200	201	214	203	200	93
165°	199	199	207	200	199	57
175°	204	206	207	206	204	19
180°	206	206	206	206	206	



TEST NUMBER: P1444507
 CATALOG NUMBER: EHBR1-18-UNV-TA-L835-UPL15

CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
0°	15340.5	15340.5	15340.5	15340.5	15340.5	15340.5	15340.5	15340.5	15340.5	15340.5	15340.5
2.5°	15399.1	15397.9	15397.7	15396.6	15396.3	15396.3	15395.7	15394.5	15393.7	15391.9	15390.0
5°	15456.2	15455.6	15455.9	15456.0	15455.0	15452.6	15448.9	15444.2	15438.5	15433.0	15428.1
7.5°	15500.4	15501.5	15502.9	15502.6	15499.2	15493.6	15485.9	15481.6	15484.2	15492.5	15511.6
10°	15508.5	15515.1	15517.6	15516.8	15510.1	15505.3	15507.2	15523.4	15555.8	15599.0	15658.0
12.5°	15477.1	15485.1	15484.8	15482.2	15475.7	15482.3	15505.9	15554.2	15623.6	15708.7	15808.5
15°	15388.7	15399.2	15396.3	15392.8	15388.5	15410.2	15457.2	15541.2	15648.3	15768.4	15891.2
17.5°	15217.3	15230.0	15223.8	15219.9	15216.3	15256.9	15337.6	15460.7	15595.6	15731.4	15847.8
20°	14920.0	14928.5	14913.8	14906.9	14912.8	14992.4	15111.3	15268.4	15410.7	15539.0	15618.6
22.5°	14434.7	14445.3	14417.9	14414.7	14448.5	14570.7	14721.3	14897.0	15030.6	15132.3	15162.9
25°	13721.8	13732.1	13699.6	13719.1	13776.7	13943.0	14122.4	14310.3	14424.3	14499.7	14478.9
27.5°	12759.5	12768.9	12738.0	12777.8	12869.0	13087.6	13298.6	13502.4	13604.1	13656.9	13590.0
30°	11545.9	11565.4	11528.9	11584.4	11723.6	12007.5	12249.2	12477.8	12579.1	12619.3	12515.2
32.5°	10104.4	10132.3	10092.0	10174.6	10368.7	10709.7	10984.4	11239.8	11351.8	11397.8	11280.1
35°	8478.6	8518.6	8472.4	8596.5	8835.9	9215.6	9519.7	9804.9	9937.5	10002.6	9884.1
37.5°	6756.1	6794.3	6769.3	6934.8	7197.7	7591.3	7901.7	8209.3	8359.2	8456.8	8363.4
40°	5065.1	5100.0	5118.9	5308.2	5555.4	5926.4	6224.7	6528.9	6696.6	6819.1	6761.5
42.5°	3575.0	3610.2	3674.5	3857.1	4063.3	4370.4	4625.9	4899.1	5059.3	5190.0	5167.7
45°	2436.9	2477.9	2558.4	2708.0	2857.1	3077.5	3265.0	3477.5	3608.3	3728.1	3729.5
47.5°	1707.7	1736.4	1808.4	1910.5	2007.8	2283.6	2294.9	2399.3	2487.3	2576.8	2588.4
50°	1316.1	1333.4	1371.6	1428.5	1483.6	1555.2	1620.7	1696.4	1750.6	1799.6	1811.3
52.5°	1081.7	1092.8	1112.2	1143.0	1175.0	1213.9	1249.0	1290.6	1319.9	1346.2	1351.7
55°	914.3	923.4	952.3	958.2	994.7	1001.7	1017.3	1042.6	1059.8	1075.5	1079.4
57.5°	787.9	794.5	800.6	813.7	825.0	841.3	854.5	872.7	883.5	894.9	895.8
60°	688.1	692.9	697.4	706.4	714.1	725.5	734.6	746.9	754.7	763.2	764.2
62.5°	614.0	617.4	620.3	626.3	631.8	640.5	647.7	658.0	665.3	671.8	673.3
65°	561.2	563.7	565.6	570.1	574.9	582.4	588.9	597.3	602.6	607.7	608.7
67.5°	514.5	516.9	518.7	522.9	526.2	531.8	536.2	542.5	546.5	550.6	550.6
70°	461.0	463.1	464.6	468.5	471.1	475.9	479.5	485.1	489.3	493.7	494.9
72.5°	423.8	425.2	427.1	430.7	434.4	439.4	444.2	450.1	455.0	459.7	461.7
75°	395.6	397.2	398.5	401.5	404.0	408.4	411.9	417.3	421.6	426.6	429.1
77.5°	355.0	356.7	357.8	360.9	363.0	367.2	369.8	374.7	378.2	382.7	384.9
80°	305.7	307.4	308.2	311.1	312.8	316.6	319.2	323.9	326.8	331.3	334.0
82.5°	251.2	252.8	253.3	256.0	256.9	260.1	261.9	266.7	270.3	276.2	280.3
85°	188.1	188.7	189.6	188.9	192.8	193.0	197.3	198.1	203.7	205.3	211.8
87.5°	115.0	116.7	117.6	120.2	121.3	123.9	124.7	127.5	129.1	132.3	133.7
90°	52.9	55.9	57.1	60.4	61.6	64.6	65.6	68.9	70.2	73.7	75.4
92.5°	17.7	18.9	20.1	21.4	22.6	24.0	25.4	26.7	27.9	29.4	31.7
95°	20.3	21.6	23.0	24.2	25.6	27.0	28.3	29.6	30.9	32.3	36.1
97.5°	25.3	26.5	27.6	28.8	30.0	31.1	32.3	33.5	34.6	35.8	40.4
100°	33.1	34.0	35.0	36.0	36.9	38.0	39.0	39.9	40.9	41.9	50.4
102.5°	54.5	58.0	61.5	64.9	68.4	71.8	75.3	78.6	82.1	85.6	103.8
105°	92.1	101.4	111.0	120.3	129.7	139.2	148.6	158.0	167.5	176.8	206.5
107.5°	157.1	174.4	191.9	209.3	226.8	244.2	261.7	279.1	296.5	313.9	344.0
110°	289.8	303.8	317.8	331.8	345.9	360.0	374.0	387.8	401.9	415.9	437.9



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CANDELA DISTRIBUTION (continued):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
112.5°	390.7	397.0	403.3	409.7	416.0	422.4	428.7	435.0	441.3	447.5	463.2
115°	412.5	414.7	416.9	419.0	421.3	423.4	425.7	427.7	429.9	432.0	442.6
117.5°	400.8	400.4	400.0	399.7	399.1	398.7	398.2	397.8	397.3	396.8	402.7
120°	374.2	372.2	370.3	368.3	366.3	364.2	362.3	360.3	358.2	356.0	358.6
122.5°	340.6	338.2	336.0	333.5	331.1	328.7	326.3	323.8	321.3	318.9	319.8
125°	309.6	307.2	304.9	302.4	300.0	297.5	295.1	292.5	290.0	287.5	287.9
127.5°	282.7	281.1	279.4	277.6	275.9	274.0	272.2	270.3	268.6	266.5	266.7
130°	265.7	264.1	262.6	260.9	259.4	257.7	256.0	254.2	252.6	250.7	250.9
132.5°	251.7	250.7	249.7	248.4	247.3	245.9	244.7	243.2	242.0	240.7	240.9
135°	242.7	241.6	240.7	239.6	238.5	237.2	236.0	234.7	233.4	232.1	232.4
137.5°	235.0	234.3	233.3	232.2	231.2	229.9	228.8	227.6	226.4	225.1	225.4
140°	228.2	227.3	226.5	225.4	224.6	223.5	222.4	221.3	220.2	218.9	219.4
142.5°	220.2	219.4	218.8	218.1	217.3	216.4	215.4	214.5	213.7	212.6	213.3
145°	215.2	214.6	214.0	213.4	212.6	211.9	211.1	210.2	209.5	208.7	209.3
147.5°	210.8	210.3	209.8	209.2	208.8	208.1	207.4	206.6	206.0	205.3	205.9
150°	206.9	206.4	206.0	205.6	204.9	204.4	203.7	203.0	202.5	201.7	202.4
152.5°	202.7	202.3	201.9	201.4	200.8	200.2	199.7	199.1	198.5	197.8	198.4
155°	200.5	200.0	199.5	199.1	198.6	198.1	197.5	196.9	196.3	195.7	196.2
157.5°	199.2	198.8	198.4	197.9	197.6	197.2	196.7	196.3	195.9	195.4	195.7
160°	199.0	198.6	198.2	197.7	197.3	196.8	196.4	196.0	195.6	195.1	195.4
162.5°	198.8	198.3	197.9	197.5	197.1	196.7	196.3	196.0	195.6	195.1	195.4
165°	199.2	199.0	198.7	198.4	198.1	197.8	197.5	197.2	196.9	196.5	196.8
167.5°	201.3	200.9	200.6	200.2	199.9	199.6	199.3	198.9	198.7	198.2	198.5
170°	202.3	202.0	201.8	201.6	201.4	201.2	201.0	200.7	200.5	200.3	200.5
172.5°	203.5	203.2	203.1	203.0	202.8	202.7	202.6	202.4	202.3	202.0	202.4
175°	203.7	203.5	203.4	203.3	203.2	203.1	203.0	202.9	202.9	202.7	202.9
177.5°	205.1	205.0	205.0	205.0	205.0	204.9	204.9	204.8	204.7	204.7	204.8
180°	206.2	206.2	206.2	206.2	206.2	206.2	206.2	206.2	206.2	206.2	206.2



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CANDELA DISTRIBUTION (continued):

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
0°	15340.5	15340.5	15340.5	15340.5	15340.5	15340.5	15340.5	15340.5	15340.5	15340.5	15340.5
2.5°	15388.5	15386.6	15384.1	15380.8	15378.0	15374.8	15367.1	15364.8	15367.4	15369.1	15372.7
5°	15425.0	15426.1	15426.6	15433.5	15439.6	15454.6	15572.6	15619.5	15655.8	15678.9	15713.8
7.5°	15535.3	15570.7	15605.8	15653.1	15693.7	15748.7	15955.2	16043.1	16105.6	16150.5	16205.7
10°	15722.1	15799.6	15872.1	15957.2	16030.3	16114.0	16306.3	16391.9	16445.9	16485.3	16522.0
12.5°	15910.3	16017.6	16114.7	16209.4	16288.6	16361.2	16428.8	16458.7	16461.2	16462.5	16443.0
15°	16008.3	16111.0	16196.4	16259.1	16305.6	16326.2	16209.8	16148.7	16071.6	16008.0	15903.4
17.5°	15946.5	16008.0	16045.0	16041.3	16022.1	15957.7	15628.1	15446.8	15266.8	15104.6	14891.9
20°	15671.5	15666.7	15634.6	15543.6	15433.9	15263.4	14698.2	14372.2	14056.9	13780.0	13444.2
22.5°	15159.8	15079.3	14967.1	14770.8	14552.8	14254.8	13444.9	12965.3	12526.4	12138.8	11704.5
25°	14418.5	14252.9	14045.9	13734.3	13395.5	12960.9	11962.7	11366.2	10839.2	10382.2	9881.1
27.5°	13469.8	13220.3	12916.9	12485.7	12026.7	11469.9	10363.2	9704.8	9139.3	8649.3	8115.9
30°	12346.6	12022.1	11630.4	11095.2	10541.5	9910.0	8787.6	8120.8	7548.2	7044.2	6510.4
32.5°	11077.2	10697.2	10238.2	9637.5	9038.7	8389.4	7305.5	6660.0	6113.1	5628.2	5145.1
35°	9677.3	9269.8	8784.1	8171.4	7576.2	6945.0	5950.4	5368.4	4885.3	4456.8	4066.7
37.5°	8175.5	7775.4	7313.8	6736.3	6184.4	5612.5	4754.2	4266.5	3861.2	3505.5	3204.3
40°	6614.2	6264.0	5864.7	5365.4	4894.4	4418.0	3713.5	3326.4	3006.5	2735.2	2509.6
42.5°	5071.9	4800.6	4494.3	4099.7	3739.3	3376.6	2834.4	2547.6	2310.6	2115.3	1955.7
45°	3679.9	3498.3	3292.9	3018.6	2769.2	2516.3	2130.4	1928.8	1774.5	1648.5	1542.1
47.5°	2572.4	2467.1	2460.7	2207.2	2024.4	1869.6	1621.0	1493.7	1399.2	1322.9	1255.5
50°	1806.5	1755.6	1692.3	1601.8	1517.0	1429.5	1278.1	1201.1	1145.7	1099.5	1056.9
52.5°	1350.5	1324.1	1290.4	1242.4	1196.4	1147.2	1051.4	1002.3	984.9	941.9	908.1
55°	1078.7	1063.5	1044.4	1016.2	988.1	977.0	894.9	858.4	835.4	818.5	800.2
57.5°	896.0	884.7	873.3	854.2	838.0	818.5	774.8	756.1	742.4	732.5	719.8
60°	764.3	757.6	751.2	739.9	731.2	720.6	692.9	682.4	675.2	669.2	661.2
62.5°	674.6	671.1	667.8	661.9	657.4	651.7	632.7	627.6	624.0	621.0	616.2
65°	609.8	607.3	605.5	601.6	599.3	595.9	579.6	576.2	574.0	572.9	570.1
67.5°	550.9	548.3	547.2	544.3	543.4	541.3	528.0	526.1	525.3	525.7	524.7
70°	496.0	494.9	495.4	495.0	496.3	496.6	488.6	488.5	489.4	491.0	491.2
72.5°	463.0	463.0	463.6	463.9	465.0	465.6	458.9	458.6	459.0	460.3	460.3
75°	431.6	432.1	433.8	434.4	435.7	436.0	427.2	426.1	426.2	427.4	427.0
77.5°	388.1	390.0	393.3	394.9	397.7	398.2	388.2	387.1	387.1	388.3	387.3
80°	338.9	342.5	347.6	351.2	355.4	357.1	346.8	344.4	342.2	341.8	339.8
82.5°	286.5	290.9	297.1	300.3	304.8	305.8	288.7	285.5	283.5	283.7	281.9
85°	218.7	222.0	227.7	229.5	232.2	232.0	212.4	204.1	206.3	202.8	205.6
87.5°	137.2	139.1	142.6	143.1	144.4	144.1	124.5	120.6	119.5	119.6	118.1
90°	79.4	81.4	85.3	86.2	89.0	89.4	74.3	73.2	71.2	71.3	68.6
92.5°	34.2	36.5	39.0	41.4	43.9	46.3	46.8	48.7	46.3	43.8	41.5
95°	40.0	43.9	47.9	51.8	55.8	59.6	63.6	67.5	63.8	60.2	56.5
97.5°	45.1	49.6	54.2	58.9	63.5	68.1	72.7	77.4	73.5	69.4	65.5
100°	59.0	67.7	76.2	84.9	93.6	102.2	110.8	119.5	111.9	104.2	96.7
102.5°	122.2	140.6	158.8	177.1	195.4	213.8	232.2	250.5	233.1	215.6	198.2
105°	236.3	265.9	295.6	325.2	354.9	384.6	414.4	444.1	416.3	388.4	360.5
107.5°	374.1	404.2	434.3	464.4	494.5	524.6	555.0	585.1	557.9	530.7	503.5
110°	459.9	481.8	503.7	525.7	547.6	569.6	591.9	613.9	597.6	581.2	564.8



TEST NUMBER: P1444507
 CATALOG NUMBER: EHBR1-18-UNV-TA-L835-UPL15

CANDELA DISTRIBUTION (continued):

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
112.5°	478.9	494.6	510.3	525.9	541.5	557.1	573.4	589.1	580.9	572.7	564.5
115°	453.1	463.9	474.3	484.9	495.5	506.0	517.2	527.9	525.1	522.4	519.8
117.5°	408.6	414.4	420.4	426.2	432.1	438.0	444.7	450.7	451.0	451.5	451.8
120°	361.1	363.5	365.9	368.4	370.8	373.2	376.6	379.2	381.4	383.5	385.6
122.5°	320.8	321.6	322.5	323.4	324.1	325.0	327.1	328.2	329.6	331.0	332.6
125°	288.3	288.8	289.1	289.5	289.7	290.2	292.0	292.4	292.5	292.5	292.5
127.5°	266.6	266.7	266.7	266.7	266.6	266.7	268.1	268.4	267.3	266.4	265.3
130°	251.1	251.2	251.4	251.5	251.7	251.9	253.6	254.0	252.3	250.5	248.7
132.5°	241.1	241.3	241.4	241.8	242.0	242.2	244.1	244.6	242.6	240.7	238.6
135°	232.6	233.1	233.3	233.6	233.9	234.4	236.3	237.0	235.1	233.2	231.3
137.5°	225.6	226.1	226.3	226.7	227.0	227.4	229.6	230.3	228.8	227.2	225.7
140°	219.7	220.2	220.7	221.1	221.5	222.1	224.5	225.3	224.2	222.9	221.7
142.5°	213.8	214.5	215.1	215.7	216.4	217.1	219.9	221.0	220.2	219.1	218.4
145°	209.9	210.8	211.5	212.2	213.0	213.9	217.0	218.3	217.7	217.1	216.5
147.5°	206.4	207.2	207.9	208.6	209.3	210.2	213.4	214.8	214.4	214.0	213.6
150°	203.0	203.7	204.4	205.2	206.0	206.8	210.5	212.0	211.7	211.3	210.9
152.5°	199.0	199.5	200.2	201.0	201.7	202.5	206.7	208.3	208.0	207.6	207.4
155°	196.5	197.1	197.5	198.1	198.6	199.4	203.9	205.4	205.2	205.0	204.8
157.5°	196.0	196.3	196.5	196.9	197.3	197.7	202.5	204.0	203.7	203.5	203.4
160°	195.6	195.9	196.0	196.3	196.5	196.9	201.7	203.1	203.0	202.8	202.7
162.5°	195.7	196.2	196.3	196.7	197.0	197.4	202.4	203.9	203.6	203.3	203.1
165°	196.9	197.1	197.3	197.6	197.8	198.1	202.6	203.9	203.8	203.5	203.4
167.5°	198.6	198.9	199.0	199.3	199.5	199.8	204.0	205.3	205.2	205.0	204.9
170°	200.6	200.8	201.0	201.2	201.5	201.8	205.3	206.3	206.1	205.9	205.7
172.5°	202.5	202.7	203.0	203.2	203.5	203.8	206.8	207.8	207.7	207.5	207.2
175°	203.1	203.2	203.5	203.8	204.0	204.1	206.5	207.3	207.2	207.1	207.0
177.5°	205.0	205.2	205.4	205.5	205.7	205.9	207.3	207.8	207.7	207.7	207.6
180°	206.2	206.2	206.2	206.2	206.2	206.2	206.2	206.2	206.2	206.2	206.2



TEST NUMBER: P1444507
 CATALOG NUMBER: EHBR1-18-UNV-TA-L835-UPL15

CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
0°	15340.5	15340.5	15340.5	15340.5	15340.5	15340.5	15340.5	15340.5	15340.5	15340.5	15340.5
2.5°	15373.4	15378.9	15379.6	15385.9	15385.4	15392.9	15391.8	15397.9	15394.3	15399.3	15395.0
5°	15734.5	15767.3	15784.4	15816.3	15826.4	15855.0	15863.1	15889.2	15890.2	15911.0	15906.2
7.5°	16245.0	16293.2	16321.9	16361.4	16381.4	16414.3	16428.9	16453.2	16461.0	16480.3	16481.8
10°	16549.9	16573.2	16589.6	16600.7	16610.8	16615.4	16620.9	16619.5	16620.9	16618.8	16623.6
12.5°	16429.9	16395.7	16373.1	16330.2	16305.3	16258.0	16234.7	16189.2	16172.7	16133.5	16127.9
15°	15822.7	15703.4	15619.1	15496.6	15419.5	15299.0	15228.4	15119.6	15069.9	14983.4	14960.8
17.5°	14715.8	14494.5	14323.1	14103.3	13950.8	13745.3	13616.2	13446.1	13353.0	13215.8	13168.4
20°	13164.1	12836.5	12579.5	12273.4	12054.2	11781.3	11606.5	11386.1	11258.1	11089.6	11021.4
22.5°	11342.3	10934.5	10613.5	10251.8	9987.5	9683.2	9473.8	9235.3	9096.1	8913.1	8832.1
25°	9464.7	9014.9	8658.0	8277.0	7997.6	7692.7	7483.2	7248.9	7104.8	6931.1	6850.7
27.5°	7668.8	7213.6	6868.7	6514.4	6258.1	5982.9	5794.0	5589.4	5461.6	5313.2	5237.5
30°	6084.1	5682.5	5389.0	5095.0	4881.8	4658.3	4501.3	4331.8	4219.6	4092.6	4020.4
32.5°	4792.9	4482.8	4253.0	4019.8	3845.3	3658.6	3522.8	3373.2	3272.0	3158.6	3093.3
35°	3795.9	3555.0	3371.8	3179.7	3029.8	2870.8	2751.1	2622.0	2531.2	2433.6	2377.1
37.5°	2999.1	2807.6	2656.8	2497.3	2374.1	2242.3	2197.9	2049.8	1955.6	1877.8	1823.9
40°	2353.8	2201.4	2076.6	1954.7	1854.2	1754.2	1674.0	1594.9	1534.1	1478.4	1439.9
42.5°	1838.1	1727.8	1636.6	1547.2	1474.0	1401.2	1343.0	1288.5	1247.6	1211.2	1186.3
45°	1461.2	1385.3	1322.0	1259.1	1207.4	1158.7	1119.6	1084.8	1058.3	1036.5	1021.0
47.5°	1200.4	1148.4	1103.7	1061.2	1026.2	994.3	968.2	959.6	931.2	912.0	904.8
50°	1020.1	988.8	954.9	923.6	900.1	876.8	859.8	843.2	832.5	823.7	821.0
52.5°	885.7	861.7	842.8	822.9	807.5	790.9	779.2	768.1	762.2	757.7	757.1
55°	785.7	768.9	756.4	743.1	733.8	724.1	718.0	712.2	709.6	707.2	707.4
57.5°	710.0	698.8	690.7	682.0	677.0	672.3	670.8	669.3	670.1	670.5	671.8
60°	654.9	647.6	642.5	637.5	635.4	633.9	635.1	636.4	639.1	641.2	643.1
62.5°	612.6	608.4	605.9	603.3	603.0	603.2	605.4	607.7	611.1	613.5	615.4
65°	569.1	566.7	566.0	564.2	565.1	565.6	568.3	570.0	573.3	575.4	577.7
67.5°	525.1	524.6	525.1	525.1	526.6	528.0	530.6	532.5	535.3	537.2	539.1
70°	492.7	493.0	494.1	494.3	496.0	496.9	499.2	500.4	502.9	504.5	506.8
72.5°	461.2	460.7	461.0	460.2	460.8	460.5	461.7	462.4	464.5	465.7	468.6
75°	427.5	426.1	425.8	424.2	424.3	423.2	423.7	423.6	425.1	425.7	427.7
77.5°	387.0	384.6	383.4	380.9	380.8	379.8	380.9	381.4	384.0	385.2	387.6
80°	338.4	334.6	333.0	330.0	330.4	330.3	332.8	334.7	337.8	338.3	341.3
82.5°	281.3	277.4	275.7	272.8	273.4	273.4	275.8	276.1	278.8	279.9	283.3
85°	201.4	202.8	198.8	199.1	198.3	199.8	201.4	203.3	205.6	209.2	212.1
87.5°	118.6	118.1	119.6	119.7	121.7	122.9	126.1	128.0	131.7	134.6	139.8
90°	68.0	65.4	65.8	64.5	65.8	64.6	65.8	64.4	65.9	65.6	68.0
92.5°	38.8	36.6	33.8	31.4	28.9	26.6	25.2	24.2	22.9	21.9	20.7
95°	52.8	49.3	45.6	41.9	38.3	34.6	33.3	31.9	30.6	29.3	27.9
97.5°	61.6	57.7	53.7	49.8	45.9	42.0	41.1	40.2	39.3	38.4	37.5
100°	89.0	81.4	73.8	66.1	58.6	51.0	50.3	49.5	48.9	48.2	47.4
102.5°	180.8	163.4	146.0	128.6	111.2	93.8	90.8	87.8	84.6	81.6	78.6
105°	332.7	304.8	277.0	249.2	221.5	193.5	185.3	176.9	168.6	160.3	152.0
107.5°	476.4	449.1	422.1	394.8	367.8	340.6	327.4	314.4	301.2	288.1	275.0
110°	548.3	532.0	515.8	499.4	483.1	466.9	454.3	441.9	429.2	416.7	404.2



TEST NUMBER: P1444507
 CATALOG NUMBER: EHBR1-18-UNV-TA-L835-UPL15

CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
112.5°	556.3	548.1	539.9	531.6	523.6	515.4	509.3	503.1	497.1	490.9	484.8
115°	517.1	514.6	511.9	509.3	506.7	504.0	503.5	503.2	502.7	502.2	501.9
117.5°	452.2	452.7	453.0	453.5	454.1	454.5	457.7	460.9	464.2	467.5	470.8
120°	387.8	389.9	392.0	394.2	396.4	398.6	402.9	407.2	411.5	416.0	420.4
122.5°	333.9	335.4	336.7	338.4	339.9	341.3	345.6	349.8	354.2	358.6	362.9
125°	292.5	292.4	292.4	292.4	292.3	292.5	295.9	299.4	302.9	306.6	310.1
127.5°	264.3	263.2	262.2	261.1	260.1	259.1	261.0	263.2	265.1	267.2	269.4
130°	246.9	245.2	243.4	241.6	239.8	238.0	238.7	239.5	240.3	241.1	241.9
132.5°	236.5	234.6	232.4	230.3	228.2	226.2	226.1	225.9	225.8	225.8	225.8
135°	229.2	227.5	225.3	223.4	221.4	219.5	218.9	218.3	217.8	217.2	216.8
137.5°	224.2	222.6	221.0	219.5	217.8	216.3	215.4	214.7	213.9	213.3	212.6
140°	220.4	219.1	217.8	216.5	215.2	214.0	213.2	212.6	212.0	211.5	210.9
142.5°	217.2	216.3	215.4	214.4	213.4	212.5	211.8	211.2	210.6	210.0	209.5
145°	215.8	215.3	214.6	213.9	213.3	212.6	212.1	211.6	211.1	210.7	210.3
147.5°	213.1	212.8	212.3	212.0	211.5	211.0	210.6	210.4	209.9	209.7	209.3
150°	210.5	210.2	209.7	209.4	209.0	208.6	208.3	208.1	207.9	207.8	207.5
152.5°	206.9	206.7	206.3	205.9	205.6	205.2	205.0	204.9	204.7	204.5	204.2
155°	204.5	204.2	204.0	203.7	203.4	203.2	202.9	202.7	202.5	202.2	201.9
157.5°	203.1	202.9	202.7	202.5	202.2	201.9	201.7	201.5	201.2	201.0	200.7
160°	202.5	202.3	202.0	201.8	201.5	201.3	200.9	200.6	200.2	199.9	199.7
162.5°	202.7	202.6	202.3	202.0	201.6	201.3	201.0	200.8	200.5	200.3	200.0
165°	203.1	202.9	202.7	202.5	202.3	202.1	201.7	201.4	201.0	200.8	200.4
167.5°	204.6	204.5	204.2	204.0	203.7	203.5	203.2	202.9	202.7	202.3	202.0
170°	205.5	205.2	205.0	204.7	204.4	204.1	203.8	203.5	203.1	202.9	202.7
172.5°	207.0	206.9	206.6	206.4	206.1	205.9	205.7	205.5	205.2	204.9	204.8
175°	206.9	206.9	206.8	206.6	206.6	206.5	206.4	206.3	206.2	206.1	205.9
177.5°	207.6	207.6	207.6	207.5	207.4	207.4	207.2	207.1	207.0	206.8	206.7
180°	206.2	206.2	206.2	206.2	206.2	206.2	206.2	206.2	206.2	206.2	206.2



TEST NUMBER: P1444507
 CATALOG NUMBER: EHBR1-18-UNV-TA-L835-UPL15

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	92.5°	95°	97.5°	100°	102.5°	105°	107.5°
0°	15340.5	15340.5	15340.5	15340.5	15340.5	15340.5	15340.5	15340.5	15340.5	15340.5	15340.5
2.5°	15399.5	15395.6	15397.5	15390.2	15391.9	15383.2	15382.4	15372.7	15371.7	15362.4	15358.9
5°	15920.9	15912.3	15922.0	15906.9	15909.9	15890.2	15888.6	15863.3	15854.6	15822.7	15809.1
7.5°	16493.9	16490.7	16496.6	16484.0	16483.6	16466.1	16458.8	16436.1	16422.1	16388.7	16367.5
10°	16619.5	16622.4	16617.6	16618.8	16612.0	16610.1	16603.1	16598.6	16587.2	16578.6	16565.9
12.5°	16098.2	16101.3	16081.4	16094.0	16084.1	16107.3	16105.5	16132.8	16137.1	16171.7	16184.9
15°	14893.4	14889.7	14851.5	14875.5	14862.6	14913.7	14925.2	14993.8	15030.6	15118.7	15172.9
17.5°	13073.4	13063.6	13009.9	13039.2	13024.2	13099.5	13124.8	13234.5	13303.1	13445.1	13546.5
20°	10903.9	10885.1	10822.1	10856.5	10841.1	10926.6	10962.6	11095.4	11183.8	11371.9	11505.8
22.5°	8707.4	8677.6	8616.0	8648.0	8633.6	8722.1	8769.1	8902.3	9003.5	9196.7	9353.0
25°	6735.0	6708.4	6648.9	6671.4	6665.9	6740.9	6782.6	6908.5	7008.0	7192.1	7341.2
27.5°	5137.0	5109.3	5055.5	5071.4	5066.0	5129.8	5169.1	5274.3	5360.0	5514.9	5645.9
30°	3931.5	3898.3	3852.7	3861.4	3857.7	3909.4	3946.2	4034.8	4108.2	4239.1	4351.9
32.5°	3013.5	2980.1	2938.2	2942.3	2936.8	2977.4	3007.7	3084.7	3148.6	3260.0	3358.2
35°	2305.8	2344.8	2255.3	2312.1	2253.0	2339.6	2308.5	2356.7	2411.6	2505.4	2587.3
37.5°	1772.6	1745.3	1722.3	1719.9	1719.8	1739.8	1763.5	1809.9	1858.4	1928.3	2000.4
40°	1404.7	1385.6	1370.7	1369.6	1370.7	1384.9	1402.5	1434.6	1470.0	1520.2	1573.2
42.5°	1165.0	1152.4	1143.4	1142.8	1145.6	1155.7	1167.9	1186.9	1210.0	1242.6	1278.9
45°	1008.4	1001.3	996.3	996.0	997.4	1002.6	1009.6	1021.5	1036.1	1056.4	1079.4
47.5°	898.5	896.7	893.6	893.7	892.2	894.4	895.3	901.8	909.7	924.9	955.1
50°	818.4	818.4	816.2	816.0	814.0	813.9	812.3	814.9	818.5	828.0	837.6
52.5°	755.0	754.8	752.5	752.0	749.9	749.8	748.4	749.3	749.8	754.7	760.4
55°	705.6	704.1	701.0	700.1	699.3	700.5	700.0	700.0	699.4	701.3	703.1
57.5°	670.1	668.2	665.3	664.5	664.2	665.7	665.7	665.3	662.5	660.8	658.2
60°	642.1	640.1	636.9	636.2	636.7	638.7	638.6	636.8	632.9	629.4	625.4
62.5°	614.4	613.7	612.1	611.8	611.4	611.8	610.4	608.5	604.7	601.0	596.6
65°	577.5	577.9	576.6	576.8	575.4	575.2	573.0	571.3	567.3	563.9	559.5
67.5°	539.0	539.3	538.3	538.3	537.7	537.8	536.4	534.7	531.4	528.6	525.2
70°	507.4	508.2	507.6	507.8	506.8	506.5	504.5	502.8	499.5	497.1	494.0
72.5°	469.4	471.1	471.0	471.5	470.2	469.4	467.0	465.0	461.9	460.1	457.6
75°	428.5	430.7	431.4	432.4	430.4	429.3	426.7	425.1	422.6	421.5	419.8
77.5°	388.5	391.0	393.3	395.5	392.3	389.6	386.2	383.7	380.0	378.6	376.0
80°	343.6	348.0	353.1	357.5	351.9	346.2	340.6	336.6	331.7	329.8	326.6
82.5°	285.2	289.5	292.5	295.3	291.4	287.2	281.9	278.3	273.0	271.1	267.4
85°	216.6	222.1	223.9	225.3	222.8	220.7	215.6	208.9	205.6	200.4	197.7
87.5°	142.4	145.7	146.4	146.9	145.3	144.3	141.1	137.9	132.3	128.2	123.1
90°	67.1	68.5	66.4	66.5	65.3	66.2	63.7	63.3	59.4	58.5	55.0
92.5°	19.6	18.2	17.2	15.9	17.4	18.3	19.7	20.7	21.9	22.9	24.2
95°	26.6	25.3	23.9	22.6	23.7	24.7	25.8	26.9	27.9	29.0	30.1
97.5°	36.7	35.7	34.8	33.9	34.5	35.2	35.8	36.5	37.0	37.7	38.3
100°	46.7	46.1	45.3	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6
102.5°	75.6	72.5	69.5	66.5	68.6	70.6	72.6	74.7	76.8	78.8	81.0
105°	143.7	135.5	127.1	118.9	126.9	134.9	142.9	151.0	158.9	167.1	175.1
107.5°	261.9	248.8	235.7	222.6	237.3	251.8	266.5	281.0	295.6	310.2	324.9
110°	391.8	379.3	366.9	354.4	369.9	385.4	400.9	416.5	431.9	447.4	463.1



TEST NUMBER: P1444507
 CATALOG NUMBER: EHBR1-18-UNV-TA-L835-UPL15

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	92.5°	95°	97.5°	100°	102.5°	105°	107.5°
112.5°	478.7	472.7	466.6	460.6	470.6	480.5	490.5	500.6	510.5	520.6	530.6
115°	501.4	501.0	500.7	500.3	505.1	509.8	514.5	519.3	524.1	528.8	533.7
117.5°	474.0	477.3	480.7	484.1	485.7	487.1	488.8	490.2	491.9	493.3	495.1
120°	424.9	429.3	433.8	438.4	437.8	437.1	436.5	435.9	435.5	435.0	434.6
122.5°	367.3	371.8	376.3	380.9	379.5	378.2	376.9	375.6	374.5	373.2	372.1
125°	314.0	317.6	321.4	325.1	323.8	322.4	321.2	320.0	318.7	317.6	316.6
127.5°	271.7	273.9	276.1	278.5	277.9	277.2	276.8	276.2	275.8	275.4	275.1
130°	242.9	243.9	244.9	246.0	246.2	246.4	246.6	246.9	247.4	247.7	248.1
132.5°	226.0	226.1	226.3	226.5	227.2	228.0	228.8	229.7	230.7	231.6	232.7
135°	216.5	216.2	215.9	215.7	216.8	217.8	218.9	220.1	221.5	222.8	224.3
137.5°	212.1	211.6	211.2	210.7	211.8	212.8	214.0	215.2	216.5	217.9	219.4
140°	210.4	210.0	209.7	209.2	210.3	211.4	212.5	213.7	215.1	216.3	217.8
142.5°	209.1	208.6	208.3	208.0	208.9	209.8	210.9	212.0	213.2	214.4	215.7
145°	209.9	209.5	209.3	209.1	209.7	210.5	211.2	212.0	212.9	213.7	214.8
147.5°	209.1	208.9	208.8	208.6	209.1	209.6	210.2	210.7	211.5	212.1	212.9
150°	207.5	207.3	207.2	207.2	207.5	207.7	208.2	208.5	209.0	209.3	210.0
152.5°	204.2	204.0	204.0	203.9	204.2	204.5	204.9	205.2	205.6	205.9	206.4
155°	201.8	201.6	201.5	201.3	201.4	201.5	201.7	201.7	201.9	202.0	202.3
157.5°	200.6	200.4	200.2	200.0	200.0	199.9	200.0	199.9	199.9	199.9	200.0
160°	199.5	199.1	198.9	198.6	198.7	198.6	198.7	198.6	198.8	198.9	198.9
162.5°	199.8	199.6	199.5	199.3	199.2	198.9	198.8	198.6	198.5	198.4	198.3
165°	200.0	199.7	199.5	199.1	199.1	199.0	199.0	198.9	198.9	198.8	198.8
167.5°	201.8	201.4	201.2	200.8	200.6	200.3	200.1	199.8	199.7	199.5	199.5
170°	202.5	202.2	202.0	201.7	201.6	201.4	201.3	201.2	201.1	201.0	201.0
172.5°	204.6	204.3	204.1	203.9	203.8	203.6	203.6	203.5	203.4	203.4	203.3
175°	205.9	205.9	205.8	205.7	205.5	205.4	205.3	205.2	205.1	204.9	204.8
177.5°	206.5	206.4	206.3	206.2	206.1	206.1	206.1	206.1	206.1	206.0	206.0
180°	206.2	206.2	206.2	206.2	206.2	206.2	206.2	206.2	206.2	206.2	206.2



TEST NUMBER: P1444507
 CATALOG NUMBER: EHBR1-18-UNV-TA-L835-UPL15

CANDELA DISTRIBUTION (continued):

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°
0°	15340.5	15340.5	15340.5	15340.5	15340.5	15340.5	15340.5	15340.5	15340.5	15340.5	15340.5
2.5°	15349.0	15344.9	15334.3	15329.1	15319.2	15314.3	15306.6	15301.7	15295.5	15290.9	15288.5
5°	15774.3	15754.6	15715.3	15691.1	15648.6	15620.6	15578.4	15547.5	15503.9	15471.8	15430.6
7.5°	16327.5	16297.4	16247.1	16208.9	16149.4	16103.9	16037.3	15984.0	15910.3	15849.1	15773.9
10°	16552.8	16535.2	16512.6	16488.0	16455.1	16422.8	16377.3	16330.9	16269.1	16207.5	16127.1
12.5°	16219.8	16236.4	16269.1	16284.3	16309.2	16317.7	16329.1	16323.8	16313.7	16288.6	16252.1
15°	15276.9	15346.0	15455.2	15530.7	15636.5	15710.8	15809.1	15872.4	15945.2	15988.8	16030.1
17.5°	13725.8	13859.5	14052.1	14205.7	14412.0	14579.8	14785.4	14946.8	15133.3	15276.3	15428.5
20°	11739.2	11926.2	12192.2	12418.0	12717.0	12970.4	13295.1	13567.2	13884.6	14149.1	14434.6
22.5°	9601.0	9821.0	10125.7	10398.1	10755.0	11073.9	11480.8	11840.5	12269.6	12653.8	13079.0
25°	7583.8	7799.4	8109.8	8391.9	8777.3	9128.5	9573.1	9985.6	10483.5	10947.8	11480.8
27.5°	5854.0	6045.6	6318.3	6572.3	6925.2	7270.0	7721.1	8161.2	8692.5	9191.3	9765.7
30°	4520.9	4676.3	4894.9	5099.1	5382.6	5664.5	6066.3	6473.3	7001.9	7518.9	8107.9
32.5°	3503.5	3636.1	3818.6	3984.4	4202.7	4415.4	4711.3	5036.4	5500.2	5995.4	6564.8
35°	2712.1	2825.5	2980.8	3123.6	3303.2	3472.0	3692.8	3924.9	4278.8	4695.4	5204.9
37.5°	2162.3	2208.5	2319.3	2436.4	2585.5	2724.2	2896.9	3068.6	3321.7	3650.4	4066.7
40°	1644.4	1717.8	1808.1	1900.2	2013.0	2124.3	2313.8	2405.0	2571.8	2807.7	3130.8
42.5°	1326.8	1378.4	1441.9	1506.0	1584.7	1662.2	1758.0	1855.7	1980.3	2140.0	2369.8
45°	1110.3	1144.0	1184.9	1227.5	1279.2	1332.2	1396.4	1463.4	1547.8	1646.0	1785.7
47.5°	965.6	984.3	1010.9	1040.1	1075.6	1112.2	1153.9	1196.6	1249.1	1307.3	1386.8
50°	852.8	868.3	889.0	908.5	933.0	970.5	987.1	1010.6	1042.1	1076.5	1120.9
52.5°	771.0	781.4	794.4	805.7	821.1	835.1	853.6	869.8	891.7	912.2	940.9
55°	707.4	711.2	718.6	725.8	736.5	746.1	758.7	769.3	783.3	795.6	813.7
57.5°	658.3	658.7	662.1	665.8	672.7	678.7	687.5	694.4	704.0	711.9	722.8
60°	623.0	621.1	621.8	623.1	627.0	630.9	636.5	641.0	647.1	651.6	657.6
62.5°	593.6	590.7	590.0	589.6	591.6	593.0	596.0	598.3	601.6	603.6	606.9
65°	556.5	553.0	551.6	550.1	550.6	550.2	551.3	551.3	553.2	553.6	555.4
67.5°	522.8	519.9	518.2	516.0	515.1	513.5	512.8	511.4	511.1	509.8	509.5
70°	492.1	489.3	487.8	485.8	484.8	482.8	481.5	479.0	477.5	475.2	473.9
72.5°	456.6	455.0	454.6	453.2	452.8	451.7	451.2	449.4	448.4	446.4	445.2
75°	419.5	418.2	418.0	416.6	416.5	415.2	414.9	413.0	412.0	410.1	409.2
77.5°	375.2	373.3	372.7	371.2	371.6	370.9	371.5	370.0	369.4	367.4	366.8
80°	325.4	322.9	321.9	319.8	320.4	319.4	320.4	320.3	321.0	319.4	319.1
82.5°	266.5	263.6	263.2	261.7	262.7	262.8	264.9	263.7	264.2	262.8	263.3
85°	193.8	191.8	189.0	188.6	186.7	188.7	186.2	187.8	185.2	187.0	184.5
87.5°	120.2	116.0	113.7	110.7	109.6	106.8	105.5	103.5	104.0	103.1	103.7
90°	54.9	51.9	52.2	50.2	51.1	49.6	50.9	50.2	51.9	51.1	52.9
92.5°	25.2	26.4	28.4	30.7	32.8	34.9	36.9	39.3	41.3	43.5	45.6
95°	31.1	32.2	35.0	37.9	40.7	43.5	46.4	49.3	52.1	55.0	57.8
97.5°	39.0	39.6	42.4	45.3	48.1	51.0	53.8	56.8	59.6	62.5	65.4
100°	44.6	44.7	52.8	60.9	69.0	77.2	85.3	93.4	101.6	109.7	117.8
102.5°	83.0	85.0	105.5	126.1	146.6	167.1	187.5	208.1	228.6	249.2	269.7
105°	183.1	191.2	222.4	253.7	285.0	316.4	347.6	379.0	410.3	441.8	473.0
107.5°	339.5	354.2	382.5	410.7	439.0	467.4	495.8	524.0	552.4	580.7	609.1
110°	478.6	494.1	513.1	532.0	551.0	570.0	588.9	608.0	627.1	646.0	665.1



TEST NUMBER: P1444507
 CATALOG NUMBER: EHBR1-18-UNV-TA-L835-UPL15

CANDELA DISTRIBUTION (continued):

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°
112.5°	540.6	550.6	561.7	572.9	583.9	595.1	606.1	617.3	628.4	639.6	650.7
115°	538.5	543.4	547.5	552.0	556.3	560.6	565.1	569.6	574.0	578.4	582.8
117.5°	496.5	498.3	499.1	499.7	500.5	501.3	502.2	502.9	503.9	504.7	505.6
120°	434.0	433.6	432.9	432.4	431.7	431.1	430.6	430.0	429.4	429.0	428.5
122.5°	370.9	369.8	369.2	368.6	368.1	367.6	367.1	366.7	366.1	365.7	365.3
125°	315.4	314.4	315.1	315.8	316.6	317.5	318.1	319.1	320.0	320.8	321.6
127.5°	274.6	274.4	276.1	278.0	279.7	281.6	283.4	285.4	287.1	289.0	290.9
130°	248.7	249.3	251.4	253.8	256.0	258.4	260.7	263.3	265.4	267.8	270.0
132.5°	233.8	235.0	237.1	239.3	241.5	243.9	246.0	248.3	250.5	253.0	255.0
135°	225.7	227.3	229.2	231.3	233.3	235.5	237.5	239.7	241.6	243.8	245.8
137.5°	220.8	222.3	224.0	225.6	227.3	229.0	230.7	232.4	234.0	235.7	237.4
140°	219.1	220.7	221.7	222.7	223.8	224.8	225.7	226.8	227.8	228.8	229.8
142.5°	216.9	218.4	218.9	219.7	220.3	221.2	221.8	222.6	223.1	223.8	224.5
145°	215.7	216.8	216.9	217.1	217.4	217.6	217.7	217.9	218.0	218.2	218.3
147.5°	213.6	214.5	214.4	214.4	214.5	214.5	214.5	214.4	214.4	214.4	214.3
150°	210.4	211.0	210.7	210.7	210.4	210.3	210.1	209.9	209.6	209.6	209.3
152.5°	206.8	207.3	206.9	206.9	206.5	206.2	206.0	205.9	205.5	205.3	205.1
155°	202.4	202.7	202.5	202.4	202.2	202.0	201.9	201.9	201.8	201.6	201.5
157.5°	200.0	200.0	199.9	199.8	199.7	199.6	199.6	199.6	199.6	199.6	199.7
160°	198.9	199.1	198.9	198.8	198.7	198.6	198.6	198.6	198.6	198.7	198.7
162.5°	198.1	198.1	197.9	197.8	197.7	197.7	197.7	197.8	197.8	197.8	197.9
165°	198.9	199.0	198.7	198.6	198.4	198.2	198.2	198.1	198.1	198.1	198.0
167.5°	199.3	199.2	199.2	199.3	199.3	199.4	199.4	199.6	199.6	199.8	199.9
170°	201.0	201.0	200.9	200.8	200.7	200.7	200.7	200.6	200.6	200.6	200.6
172.5°	203.3	203.3	203.1	202.9	202.7	202.7	202.6	202.5	202.3	202.2	202.0
175°	204.7	204.6	204.5	204.4	204.3	204.1	204.1	203.9	203.8	203.7	203.6
177.5°	205.9	205.9	205.8	205.8	205.8	205.7	205.7	205.7	205.7	205.7	205.6
180°	206.2	206.2	206.2	206.2	206.2	206.2	206.2	206.2	206.2	206.2	206.2



TEST NUMBER: P1444507
 CATALOG NUMBER: EHBR1-18-UNV-TA-L835-UPL15

CANDELA DISTRIBUTION (continued):

	137.5°	140°	142.5°	145°	147.5°	150°	152.5°	155°	157.5°	160°	162.5°
0°	15340.5	15340.5	15340.5	15340.5	15340.5	15340.5	15340.5	15340.5	15340.5	15340.5	15340.5
2.5°	15285.4	15285.2	15283.7	15284.4	15284.7	15285.8	15287.1	15288.5	15288.8	15289.8	15290.0
5°	15399.8	15362.0	15334.1	15303.2	15280.1	15259.3	15245.4	15234.4	15230.1	15231.2	15233.8
7.5°	15710.0	15631.9	15567.5	15494.2	15433.3	15368.6	15315.0	15264.1	15226.9	15199.2	15183.8
10°	16050.4	15955.3	15864.3	15758.4	15657.8	15550.6	15453.4	15355.6	15273.9	15203.2	15151.1
12.5°	16201.4	16134.2	16055.7	15955.6	15848.1	15724.2	15599.3	15465.2	15340.7	15224.9	15131.6
15°	16041.5	16041.6	16013.0	15965.0	15890.2	15791.3	15672.3	15532.5	15385.5	15235.4	15098.4
17.5°	15533.8	15629.6	15682.8	15716.6	15706.2	15669.8	15594.0	15486.7	15349.7	15189.9	15022.6
20°	14661.9	14887.8	15049.0	15193.9	15275.0	15328.9	15323.6	15279.9	15182.3	15046.4	14872.2
22.5°	13440.6	13819.8	14119.0	14398.1	14593.8	14753.0	14828.6	14860.8	14816.6	14721.8	14558.3
25°	11957.2	12472.8	12912.8	13339.8	13660.1	13935.4	14100.9	14217.4	14226.7	14177.2	14031.3
27.5°	10308.8	10917.4	11474.3	12041.8	12492.3	12888.1	13147.7	13337.8	13398.1	13390.2	13257.6
30°	8662.6	9301.5	9915.3	10577.1	11134.5	11640.1	11983.1	12240.2	12339.2	12358.2	12230.7
32.5°	7107.9	7737.9	8350.1	9041.9	9655.3	10234.7	10640.0	10945.3	11060.5	11087.6	10947.8
35°	5696.8	6278.1	6859.9	7530.4	8140.3	8740.3	9167.3	9487.0	9594.5	9612.6	9450.8
37.5°	4473.2	4968.5	5475.4	6077.0	6637.1	7200.6	7606.4	7906.8	7985.1	7980.3	7797.1
40°	3443.0	3828.1	4235.3	4730.6	5196.3	5672.7	6015.2	6263.6	6304.8	6274.2	6081.8
42.5°	2589.0	2867.0	3162.3	3532.0	3877.5	4234.0	4483.3	4667.7	4673.6	4625.4	4452.6
45°	1928.8	2200.1	2323.9	2547.5	2770.0	3007.1	3159.2	3273.1	3255.5	3213.1	3081.8
47.5°	1470.3	1574.7	1685.2	1823.9	1953.4	2222.5	2202.5	2385.5	2253.7	2343.5	2145.8
50°	1167.6	1225.9	1285.4	1359.0	1426.7	1497.1	1541.0	1573.8	1569.5	1555.5	1517.6
52.5°	993.4	1011.4	1040.7	1082.6	1120.4	1158.4	1183.4	1203.8	1204.2	1198.5	1179.3
55°	830.2	853.1	874.2	901.6	948.1	955.3	991.1	983.9	986.7	976.7	986.9
57.5°	732.0	745.3	757.2	773.5	786.9	802.7	811.9	820.8	819.9	818.0	808.3
60°	662.4	669.7	676.3	685.8	693.2	702.1	706.4	710.9	709.4	706.1	697.4
62.5°	608.7	613.4	617.1	623.3	627.7	633.3	635.5	637.4	635.5	632.3	624.6
65°	555.8	558.8	561.1	565.8	569.0	573.6	575.6	577.3	575.6	573.1	567.3
67.5°	508.1	508.4	508.1	510.0	511.0	513.8	514.7	515.9	513.9	511.8	506.8
70°	471.8	471.0	470.2	470.9	471.0	472.5	472.7	472.5	470.0	466.4	461.0
72.5°	443.5	443.1	442.4	443.0	443.0	444.3	443.9	443.3	440.3	436.7	431.4
75°	407.1	406.9	405.5	405.5	404.4	404.8	403.4	402.5	399.1	396.2	391.3
77.5°	364.6	363.9	361.9	361.1	359.0	358.1	355.3	353.9	350.5	348.1	344.0
80°	317.0	316.3	313.7	312.3	308.9	306.7	302.6	300.3	296.4	294.1	290.1
82.5°	262.0	262.3	259.8	258.0	253.1	249.4	243.9	241.0	236.6	234.4	230.3
85°	186.4	183.6	185.1	185.0	181.9	178.7	174.2	171.1	167.5	165.3	162.4
87.5°	102.2	102.9	102.1	101.5	99.3	97.6	94.2	92.4	89.7	88.4	86.2
90°	49.1	47.9	44.2	43.1	39.5	37.4	33.4	31.7	27.9	27.1	24.7
92.5°	43.1	40.7	38.5	36.0	33.6	31.2	28.9	26.5	24.0	23.2	22.5
95°	54.3	50.9	47.5	44.0	40.5	37.0	33.7	30.3	26.8	26.1	25.3
97.5°	61.4	57.3	53.1	49.1	45.0	40.9	36.8	32.8	28.7	28.2	27.8
100°	108.4	99.0	89.6	80.2	70.8	61.4	52.0	42.5	33.2	32.6	32.1
102.5°	246.9	224.0	201.2	178.3	155.5	132.6	109.9	87.0	64.2	60.9	57.6
105°	438.5	403.7	369.3	334.8	300.1	265.6	231.1	196.3	161.8	150.7	139.5
107.5°	576.6	544.1	511.6	479.1	446.6	414.2	381.5	349.1	316.5	297.0	277.5
110°	639.3	613.6	587.8	562.0	536.3	510.5	484.6	458.8	433.1	416.2	399.5



TEST NUMBER: P1444507
 CATALOG NUMBER: EHBR1-18-UNV-TA-L835-UPL15

CANDELA DISTRIBUTION (continued):

	137.5°	140°	142.5°	145°	147.5°	150°	152.5°	155°	157.5°	160°	162.5°
112.5°	631.8	613.0	594.2	575.3	556.5	537.6	518.6	499.7	480.8	470.6	460.4
115°	571.6	560.2	548.9	537.6	526.2	514.8	503.5	492.0	480.6	475.3	469.9
117.5°	499.9	494.1	488.4	482.6	476.9	470.9	465.2	459.4	453.6	451.7	449.9
120°	426.9	425.3	423.5	421.8	420.0	418.3	416.5	414.8	413.0	413.3	413.5
122.5°	366.1	366.8	367.6	368.3	369.0	369.7	370.6	371.1	371.8	373.3	374.9
125°	323.5	325.2	327.0	328.7	330.4	332.2	333.9	335.5	337.3	338.8	340.4
127.5°	293.0	294.9	296.9	298.8	300.8	302.7	304.8	306.6	308.5	309.9	311.4
130°	271.9	273.5	275.3	276.9	278.8	280.4	282.1	283.8	285.5	286.6	287.8
132.5°	256.7	258.2	259.8	261.2	262.9	264.3	266.0	267.4	269.1	269.9	270.8
135°	247.0	248.1	249.4	250.5	251.8	252.9	254.0	255.3	256.6	257.2	257.8
137.5°	238.4	239.3	240.4	241.2	242.3	243.2	244.3	245.3	246.5	246.8	247.3
140°	230.8	231.8	232.8	233.9	234.9	235.9	237.1	238.2	239.4	239.7	240.2
142.5°	225.3	226.0	226.9	227.6	228.5	229.3	230.3	231.2	232.1	232.5	232.9
145°	219.1	220.1	221.1	222.0	222.9	224.0	225.0	226.2	227.3	227.6	227.9
147.5°	215.1	215.8	216.7	217.6	218.4	219.2	220.2	221.2	222.2	222.4	222.7
150°	210.2	211.1	211.9	212.7	213.7	214.7	215.6	216.8	217.9	218.3	218.6
152.5°	205.9	206.9	207.8	208.8	209.8	210.8	212.0	213.1	214.2	214.5	215.0
155°	202.5	203.3	204.3	205.4	206.3	207.4	208.5	209.5	210.6	211.1	211.5
157.5°	200.5	201.3	202.2	203.1	204.0	205.0	205.9	206.9	207.9	208.3	208.6
160°	199.5	200.2	201.1	201.8	202.7	203.4	204.4	205.2	206.0	206.4	206.7
162.5°	198.7	199.5	200.3	200.9	201.9	202.7	203.5	204.3	205.2	205.5	205.9
165°	198.7	199.2	199.8	200.4	201.0	201.6	202.3	202.7	203.5	203.8	204.2
167.5°	200.5	200.9	201.3	201.8	202.4	202.7	203.2	203.7	204.3	204.6	205.0
170°	201.1	201.5	201.8	202.3	202.7	203.1	203.5	203.9	204.5	204.8	205.1
172.5°	202.3	202.5	202.8	203.0	203.2	203.5	203.9	204.2	204.5	204.9	205.2
175°	203.8	203.9	204.1	204.2	204.2	204.4	204.6	204.8	205.0	205.2	205.5
177.5°	205.7	205.8	205.9	205.9	206.1	206.2	206.3	206.4	206.6	206.9	207.1
180°	206.2	206.2	206.2	206.2	206.2	206.2	206.2	206.2	206.2	206.2	206.2



TEST NUMBER: P1444507
 CATALOG NUMBER: EHBR1-18-UNV-TA-L835-UPL15

CANDELA DISTRIBUTION (continued):

	165°	167.5°	170°	172.5°	175°	177.5°	180°	182.5°	185°	187.5°	190°
0°	15340.5	15340.5	15340.5	15340.5	15340.5	15340.5	15340.5	15340.5	15340.5	15340.5	15340.5
2.5°	15289.6	15289.4	15288.9	15288.2	15287.5	15287.9	15288.6	15290.3	15293.4	15297.9	15303.6
5°	15235.9	15239.0	15240.8	15241.0	15239.4	15238.5	15239.9	15244.2	15252.6	15266.8	15286.1
7.5°	15179.6	15183.5	15189.4	15193.9	15194.6	15193.6	15193.9	15200.4	15216.1	15243.7	15282.6
10°	15119.5	15108.0	15114.1	15125.1	15133.9	15135.5	15136.5	15144.3	15167.2	15209.1	15271.4
12.5°	15064.0	15027.9	15020.9	15030.9	15044.1	15048.4	15047.1	15050.5	15077.3	15132.7	15219.6
15°	14991.0	14922.9	14899.7	14902.3	14918.7	14924.6	14920.3	14913.7	14939.8	15007.4	15119.9
17.5°	14872.9	14763.1	14720.4	14718.5	14737.7	14742.9	14732.3	14711.9	14737.5	14821.9	14961.5
20°	14693.2	14531.3	14450.8	14438.0	14458.9	14452.8	14431.7	14400.8	14434.5	14537.1	14703.2
22.5°	14370.4	14165.2	14027.6	13983.3	14008.2	13991.6	13960.8	13921.3	13966.2	14082.8	14267.8
25°	13842.8	13605.6	13417.4	13311.7	13331.6	13301.7	13268.3	13220.4	13273.9	13407.7	13611.3
27.5°	13067.3	12793.4	12560.1	12385.2	12391.6	12352.5	12314.0	12251.9	12318.7	12477.1	12706.8
30°	12036.1	11719.1	11435.0	11197.4	11176.0	11138.1	11098.7	11017.3	11100.9	11290.5	11558.8
32.5°	10741.1	10389.2	10060.9	9760.4	9703.7	9666.6	9631.4	9537.9	9647.3	9868.3	10176.7
35°	9226.6	8851.8	8495.8	8152.6	8058.7	8021.7	7990.9	7901.2	8037.8	8278.3	8611.4
37.5°	7564.3	7181.3	6827.9	6476.0	6343.3	6293.1	6270.7	6212.0	6369.5	6607.4	6941.8
40°	5857.7	5501.6	5184.8	4874.0	4722.6	4645.8	4634.1	4623.4	4775.8	4982.1	5285.7
42.5°	4261.3	3974.0	3729.6	3492.1	3355.0	3250.1	3250.1	3281.9	3419.0	3573.6	3807.7
45°	2947.6	2754.9	2599.2	2440.4	2482.9	2273.8	2396.6	2333.6	2401.4	2501.0	2653.2
47.5°	2026.2	1921.0	1835.5	1746.8	1682.1	1620.4	1625.8	1665.6	1729.4	1788.6	1867.8
50°	1476.7	1423.2	1379.6	1333.5	1301.4	1274.2	1275.7	1293.0	1326.5	1357.7	1399.1
52.5°	1157.1	1127.6	1103.9	1078.4	1061.5	1048.1	1048.7	1057.2	1075.3	1093.1	1116.8
55°	953.8	950.2	919.4	896.6	887.9	878.8	880.4	883.7	896.0	906.5	922.2
57.5°	799.3	785.4	776.2	764.2	758.6	752.3	753.7	754.9	763.2	770.2	781.5
60°	690.2	680.4	673.8	665.6	662.0	658.0	658.9	659.6	664.9	669.4	677.6
62.5°	617.6	608.9	603.2	596.9	594.4	591.7	592.2	592.4	595.7	599.1	605.2
65°	562.1	555.1	550.4	544.9	542.3	539.4	539.7	539.7	542.5	544.9	549.6
67.5°	503.2	498.0	495.0	490.6	488.8	486.0	485.9	485.0	486.7	487.7	490.9
70°	456.1	450.8	446.9	442.7	440.4	437.9	438.0	438.0	440.1	442.3	446.3
72.5°	426.9	421.9	418.4	414.7	412.6	410.4	410.1	409.8	411.3	412.6	415.2
75°	388.3	384.3	382.2	378.8	377.1	374.7	374.3	373.1	373.9	374.1	376.1
77.5°	341.5	337.6	336.0	332.6	331.1	328.3	328.1	326.9	327.4	327.1	328.6
80°	288.1	284.6	283.7	280.9	280.2	277.6	277.2	275.7	276.1	275.0	275.5
82.5°	228.5	225.3	224.7	222.0	222.0	219.7	219.5	217.2	217.2	215.3	212.1
85°	161.0	158.6	157.7	155.5	154.8	153.0	152.0	149.8	149.0	147.6	147.1
87.5°	84.9	83.5	82.1	81.2	79.2	75.9	75.6	73.3	73.5	71.8	71.9
90°	24.1	21.9	21.4	19.4	18.7	17.2	16.7	16.9	17.5	17.6	18.3
92.5°	21.6	20.8	20.1	19.3	18.4	17.6	16.9	17.6	18.4	19.3	20.1
95°	24.6	23.9	23.2	22.5	21.8	21.0	20.4	21.0	21.8	22.5	23.2
97.5°	27.3	26.9	26.5	26.0	25.5	25.1	24.6	25.2	25.6	26.1	26.6
100°	31.5	31.0	30.4	30.0	29.4	28.9	28.3	29.0	29.5	30.1	30.5
102.5°	54.3	51.0	47.7	44.4	41.1	37.8	34.5	37.8	41.1	44.5	47.8
105°	128.5	117.4	106.3	95.1	84.1	72.9	61.8	72.9	84.1	95.1	106.4
107.5°	257.9	238.4	218.8	199.3	179.7	160.1	140.5	160.2	179.8	199.4	218.9
110°	382.5	365.7	348.8	332.0	315.0	298.2	281.2	298.3	315.1	332.1	349.0



TEST NUMBER: P1444507
 CATALOG NUMBER: EHBR1-18-UNV-TA-L835-UPL15

CANDELA DISTRIBUTION (continued):

	165°	167.5°	170°	172.5°	175°	177.5°	180°	182.5°	185°	187.5°	190°
112.5°	450.1	439.9	429.6	419.5	409.1	398.9	388.5	399.0	409.3	419.7	429.9
115°	464.5	459.1	453.9	448.4	443.0	437.6	432.1	437.8	443.3	448.8	454.4
117.5°	448.1	446.2	444.3	442.4	440.5	438.7	436.6	438.8	440.8	442.9	444.9
120°	413.7	414.0	414.3	414.5	414.7	414.9	415.0	415.1	415.1	415.1	415.0
122.5°	376.3	377.8	379.1	380.6	382.0	383.4	384.6	383.6	382.4	381.4	380.1
125°	341.9	343.4	344.9	346.4	347.8	349.4	350.5	349.6	348.5	347.3	346.0
127.5°	312.8	314.2	315.6	317.0	318.2	319.4	320.6	319.8	318.8	317.8	316.8
130°	288.8	290.0	290.9	292.0	292.9	293.9	294.7	294.2	293.5	293.1	292.2
132.5°	271.6	272.6	273.3	274.2	274.9	275.6	276.1	275.9	275.6	275.3	274.7
135°	258.5	259.2	259.6	260.2	260.7	261.1	261.4	261.5	261.4	261.3	261.0
137.5°	247.5	248.0	248.4	248.6	248.8	249.0	249.0	249.4	249.6	249.9	249.9
140°	240.6	241.0	241.3	241.5	241.9	242.1	242.1	242.5	242.7	242.8	242.8
142.5°	233.4	233.8	234.1	234.4	234.6	234.8	234.8	235.2	235.4	235.5	235.6
145°	228.2	228.4	228.6	228.8	229.0	229.0	228.9	229.4	229.7	229.9	230.2
147.5°	223.0	223.2	223.5	223.6	223.7	223.8	223.8	224.2	224.4	224.7	225.0
150°	219.0	219.4	219.8	220.1	220.3	220.5	220.6	220.9	221.1	221.2	221.3
152.5°	215.3	215.5	215.9	216.2	216.4	216.5	216.6	216.9	217.2	217.4	217.5
155°	211.9	212.2	212.5	212.9	213.1	213.4	213.6	213.9	214.0	214.2	214.3
157.5°	209.0	209.3	209.6	209.9	210.1	210.5	210.7	211.0	211.2	211.4	211.6
160°	207.0	207.4	207.7	208.0	208.3	208.6	208.8	209.1	209.3	209.4	209.7
162.5°	206.1	206.4	206.6	206.9	207.2	207.5	207.8	208.1	208.3	208.5	208.7
165°	204.6	205.0	205.2	205.6	205.9	206.3	206.6	206.8	206.9	207.0	207.1
167.5°	205.3	205.7	205.9	206.2	206.4	206.8	207.2	207.3	207.4	207.5	207.5
170°	205.4	205.8	205.9	206.2	206.5	206.8	207.0	207.1	207.2	207.3	207.4
172.5°	205.4	205.9	206.1	206.5	206.7	207.1	207.4	207.5	207.4	207.4	207.3
175°	205.7	206.0	206.2	206.5	206.8	207.1	207.4	207.2	207.2	207.1	207.0
177.5°	207.5	207.9	208.2	208.5	208.8	209.0	209.3	209.1	209.0	208.7	208.4
180°	206.2	206.2	206.2	206.2	206.2	206.2	206.2	206.2	206.2	206.2	206.2



TEST NUMBER: P1444507
 CATALOG NUMBER: EHBR1-18-UNV-TA-L835-UPL15

CANDELA DISTRIBUTION (continued):

	192.5°	195°	197.5°	200°	202.5°	205°	207.5°	210°	212.5°	215°	217.5°
0°	15340.5	15340.5	15340.5	15340.5	15340.5	15340.5	15340.5	15340.5	15340.5	15340.5	15340.5
2.5°	15311.9	15319.5	15331.2	15341.8	15357.8	15370.4	15389.4	15403.8	15425.1	15439.1	15462.2
5°	15313.2	15343.2	15382.5	15421.0	15467.2	15509.2	15561.3	15605.7	15658.1	15700.9	15754.5
7.5°	15334.8	15392.6	15461.9	15531.7	15610.6	15684.4	15767.5	15842.8	15925.0	15994.8	16070.8
10°	15350.8	15439.9	15541.9	15644.6	15752.7	15853.2	15954.5	16042.2	16124.0	16191.4	16250.9
12.5°	15329.2	15452.0	15582.9	15709.3	15829.5	15933.4	16020.6	16088.0	16134.5	16166.1	16173.5
15°	15255.5	15403.3	15545.6	15671.6	15771.3	15848.2	15888.0	15906.6	15886.6	15853.4	15780.5
17.5°	15118.0	15273.8	15401.1	15500.4	15553.1	15574.0	15541.0	15483.7	15371.6	15247.1	15067.4
20°	14865.9	15011.0	15103.4	15157.6	15143.4	15091.3	14966.8	14815.4	14591.6	14353.1	14038.3
22.5°	14423.6	14550.5	14599.7	14603.7	14517.7	14387.1	14162.6	13903.0	13549.9	13182.8	12731.3
25°	13759.8	13870.9	13878.7	13835.0	13677.6	13466.0	13136.3	12769.0	12289.3	11800.1	11234.3
27.5°	12859.4	12966.0	12939.9	12858.4	12639.9	12356.8	11934.6	11460.2	10868.7	10291.0	9665.1
30°	11727.7	11841.6	11810.9	11706.4	11446.6	11111.9	10615.1	10064.0	9407.3	8790.2	8156.0
32.5°	10373.2	10517.3	10496.1	10396.9	10125.6	9767.6	9228.5	8644.0	7971.9	7363.9	6746.9
35°	8833.7	9008.7	9017.8	8952.8	8701.0	8347.1	7814.8	7249.0	6605.3	6031.6	5461.7
37.5°	7175.1	7377.9	7419.6	7402.1	7193.4	6881.0	6396.0	5888.4	5318.3	4815.4	4328.0
40°	5507.3	5712.6	5783.9	5805.0	5651.0	5409.0	5011.0	4601.3	4136.5	3729.1	3342.0
42.5°	3986.4	4168.4	4237.2	4280.6	4184.4	4023.1	3732.7	3435.2	3094.6	2800.7	2519.0
45°	2768.7	2897.4	2949.8	2993.3	2941.0	2850.0	2666.6	2480.5	2255.7	2063.6	1881.8
47.5°	1935.7	2006.7	2041.2	2062.4	2042.1	1994.7	1894.8	1787.1	1660.2	1548.0	1440.1
50°	1434.7	1472.6	1490.7	1502.9	1488.1	1461.7	1407.7	1349.0	1279.3	1215.8	1153.7
52.5°	1137.0	1158.7	1169.5	1176.1	1167.5	1151.4	1120.0	1085.2	1043.4	1004.1	983.5
55°	957.9	956.7	981.5	969.6	981.5	954.8	949.2	911.0	876.2	851.8	825.3
57.5°	789.9	801.2	805.9	811.3	807.8	802.9	789.6	775.9	757.6	742.2	726.0
60°	683.8	693.1	698.3	703.6	703.3	701.4	693.7	685.5	674.1	664.9	655.0
62.5°	610.7	618.7	623.9	628.9	629.4	628.6	622.8	617.1	609.3	603.6	596.7
65°	553.2	558.8	562.3	566.4	566.1	565.0	559.8	555.0	548.6	544.6	539.6
67.5°	493.0	497.2	499.9	503.7	504.5	504.7	501.8	499.5	496.4	495.3	493.6
70°	450.1	455.2	459.7	464.4	467.1	468.3	467.1	466.0	464.2	463.4	462.0
72.5°	417.7	422.1	425.5	429.8	432.4	434.1	433.1	432.5	430.9	430.7	429.7
75°	377.5	380.5	382.4	385.7	387.0	388.6	387.9	388.3	387.8	389.0	389.0
77.5°	329.1	331.3	332.2	334.6	334.8	336.8	337.2	339.6	341.2	344.9	346.8
80°	274.6	276.1	276.1	278.5	279.5	282.9	284.5	288.3	290.1	293.3	293.6
82.5°	213.3	211.7	213.3	212.2	215.4	219.1	219.7	222.9	223.7	225.7	224.1
85°	145.8	145.7	144.4	144.7	143.7	144.1	143.6	144.2	143.6	143.7	142.1
87.5°	69.9	70.5	68.9	69.5	68.0	68.6	67.4	68.4	66.9	67.1	64.8
90°	18.6	19.2	19.6	20.2	20.8	22.4	23.9	25.4	27.1	28.5	30.1
92.5°	20.8	21.7	22.6	23.4	24.1	26.6	29.0	31.3	33.7	36.2	38.6
95°	23.9	24.6	25.3	26.2	26.9	30.3	33.8	37.2	40.7	44.2	47.7
97.5°	27.1	27.5	28.0	28.4	28.9	33.0	37.0	41.2	45.3	49.4	53.4
100°	31.2	31.7	32.3	32.8	33.4	42.8	52.3	61.7	71.1	80.6	90.0
102.5°	51.1	54.4	57.7	61.2	64.5	87.4	110.2	133.1	155.8	178.7	201.6
105°	117.5	128.7	139.8	151.0	162.1	196.7	231.4	266.1	300.6	335.2	369.8
107.5°	238.6	258.2	277.8	297.4	317.0	349.5	382.1	414.7	447.3	479.8	512.3
110°	366.0	382.8	399.9	416.7	433.7	459.5	485.4	511.3	537.1	562.9	588.7



TEST NUMBER: P1444507
 CATALOG NUMBER: EHBR1-18-UNV-TA-L835-UPL15

CANDELA DISTRIBUTION (continued):

	192.5°	195°	197.5°	200°	202.5°	205°	207.5°	210°	212.5°	215°	217.5°
112.5°	440.4	450.6	461.0	471.1	481.5	500.5	519.5	538.5	557.4	576.3	595.2
115°	459.8	465.1	470.7	476.1	481.6	493.1	504.5	515.9	527.4	538.7	550.3
117.5°	446.9	448.9	450.9	452.7	454.7	460.5	466.5	472.3	478.2	484.0	489.9
120°	415.0	414.8	414.7	414.5	414.3	416.1	418.0	419.7	421.7	423.5	425.3
122.5°	378.8	377.5	376.2	374.8	373.5	372.7	372.2	371.5	370.9	370.3	369.6
125°	344.7	343.3	342.0	340.5	339.1	337.4	335.8	334.2	332.5	330.8	329.1
127.5°	315.6	314.4	313.3	311.9	310.7	308.7	306.9	304.9	303.1	301.3	299.3
130°	291.6	290.6	289.8	288.7	287.9	286.1	284.6	282.9	281.3	279.6	278.0
132.5°	274.3	273.6	273.0	272.3	271.6	270.0	268.7	267.1	265.7	264.1	262.8
135°	260.9	260.5	260.2	259.8	259.3	258.1	257.0	255.9	254.8	253.7	252.6
137.5°	249.9	249.8	249.7	249.5	249.4	248.3	247.4	246.5	245.6	244.6	243.8
140°	242.9	242.8	242.7	242.5	242.4	241.4	240.4	239.4	238.5	237.5	236.5
142.5°	235.6	235.6	235.5	235.3	235.2	234.4	233.8	232.9	232.2	231.4	230.7
145°	230.3	230.4	230.4	230.3	230.5	229.5	228.6	227.7	226.9	225.9	225.0
147.5°	225.0	225.1	225.3	225.2	225.4	224.7	224.0	223.2	222.5	221.8	221.1
150°	221.3	221.3	221.3	221.3	221.2	220.5	219.7	218.9	218.3	217.4	216.7
152.5°	217.5	217.6	217.7	217.7	217.8	217.1	216.2	215.4	214.7	213.8	213.1
155°	214.4	214.5	214.5	214.5	214.5	213.8	213.0	212.3	211.6	210.8	210.0
157.5°	211.7	211.8	211.9	212.0	212.0	211.4	210.7	210.1	209.4	208.9	208.2
160°	209.8	210.0	210.1	210.1	210.3	209.7	209.3	208.7	208.3	207.6	207.0
162.5°	208.9	209.1	209.1	209.1	209.3	208.8	208.4	207.8	207.3	206.6	206.1
165°	207.3	207.3	207.3	207.3	207.3	206.9	206.7	206.3	205.9	205.6	205.2
167.5°	207.7	207.7	207.7	207.7	207.7	207.4	207.3	207.0	206.7	206.4	206.1
170°	207.5	207.5	207.5	207.5	207.5	207.2	206.9	206.7	206.6	206.1	205.9
172.5°	207.2	207.1	207.1	207.0	206.9	206.7	206.5	206.3	206.2	206.1	205.9
175°	207.0	206.8	206.7	206.6	206.4	206.4	206.3	206.3	206.2	206.2	206.1
177.5°	208.3	208.1	207.8	207.6	207.4	207.3	207.3	207.2	207.2	207.1	207.0
180°	206.2	206.2	206.2	206.2	206.2	206.2	206.2	206.2	206.2	206.2	206.2



TEST NUMBER: P1444507
 CATALOG NUMBER: EHBR1-18-UNV-TA-L835-UPL15

CANDELA DISTRIBUTION (continued):

	220°	222.5°	225°	227.5°	230°	232.5°	235°	237.5°	240°	242.5°	245°
0°	15340.5	15340.5	15340.5	15340.5	15340.5	15340.5	15340.5	15340.5	15340.5	15340.5	15340.5
2.5°	15476.7	15381.1	15368.5	15375.2	15391.2	15397.1	15414.2	15419.0	15436.4	15440.6	15457.3
5°	15796.0	15669.6	15675.9	15706.4	15752.4	15779.8	15825.0	15848.6	15891.8	15911.4	15950.4
7.5°	16132.7	16033.5	16064.5	16115.7	16178.6	16222.1	16276.4	16311.8	16358.6	16387.6	16425.1
10°	16298.1	16270.9	16304.9	16345.3	16381.2	16409.3	16432.3	16450.7	16462.7	16474.0	16479.0
12.5°	16172.3	16214.4	16220.1	16216.2	16192.5	16174.3	16133.5	16105.9	16056.7	16026.8	15968.2
15°	15705.8	15798.3	15747.1	15669.5	15556.1	15461.5	15327.9	15228.4	15089.2	14994.9	14855.3
17.5°	14887.3	15004.0	14870.6	14691.1	14462.9	14267.6	14024.4	13831.3	13589.6	13413.7	13188.1
20°	13734.9	13843.9	13605.9	13308.5	12955.4	12658.2	12307.8	12028.1	11702.4	11460.2	11167.9
22.5°	12300.1	12377.8	12042.4	11641.5	11191.6	10820.3	10401.3	10066.0	9694.5	9417.4	9105.7
25°	10712.8	10733.7	10331.4	9869.4	9368.0	8950.8	8503.5	8151.0	7772.0	7491.3	7185.4
27.5°	9110.6	9079.8	8645.0	8155.2	7627.7	7194.0	6757.8	6427.5	6095.5	5842.6	5579.1
30°	7598.4	7523.9	7072.4	6569.0	6056.9	5668.3	5306.1	5040.9	4776.7	4576.1	4364.6
32.5°	6211.7	6106.6	5667.1	5195.4	4764.0	4464.0	4195.4	3994.7	3781.5	3612.1	3434.5
35°	4983.4	4871.5	4482.2	4082.2	3755.7	3534.6	3323.5	3158.8	2977.8	2834.9	2680.6
37.5°	3929.3	3837.5	3511.4	3196.7	2949.8	2778.3	2605.5	2470.9	2321.3	2258.3	2093.6
40°	3033.4	2969.3	2714.3	2482.3	2296.8	2216.4	2040.8	1915.1	1803.2	1711.0	1621.7
42.5°	2366.1	2343.4	2095.3	1914.3	1783.7	1682.3	1584.5	1505.0	1427.7	1364.2	1304.1
45°	1736.4	1718.4	1608.2	1503.8	1414.8	1343.9	1277.8	1223.2	1172.6	1130.7	1092.6
47.5°	1352.1	1346.3	1282.9	1218.1	1162.1	1116.5	1073.7	1037.4	1003.8	975.8	966.7
50°	1099.7	1099.0	1061.7	1021.8	981.8	955.6	928.1	906.7	885.2	868.4	850.6
52.5°	934.4	930.4	905.2	880.5	856.9	839.6	822.0	808.4	794.1	783.7	772.7
55°	804.4	808.7	794.1	779.4	764.5	753.8	741.6	732.5	722.8	716.2	709.6
57.5°	714.1	719.7	712.2	703.8	694.7	687.7	679.2	673.0	666.4	662.3	658.5
60°	648.5	654.6	651.6	647.3	641.8	637.5	632.2	628.7	624.4	622.1	620.0
62.5°	592.7	600.4	599.3	597.4	593.8	591.5	588.5	586.9	584.2	583.1	582.2
65°	537.2	545.8	545.6	544.6	542.7	542.0	540.2	539.8	538.4	539.0	538.8
67.5°	493.4	500.9	502.6	503.8	503.7	504.2	504.0	504.8	504.8	505.9	506.5
70°	461.9	467.1	468.3	469.6	470.0	470.9	470.9	471.6	471.4	472.3	472.5
72.5°	430.0	436.9	438.1	439.1	439.1	440.1	439.6	439.4	438.1	437.8	436.8
75°	390.3	399.1	401.0	402.3	402.5	403.4	402.1	401.4	399.1	398.2	396.6
77.5°	348.9	358.0	359.3	359.8	359.1	359.2	356.7	355.1	352.2	351.0	349.5
80°	294.9	308.3	309.5	308.6	306.5	306.1	303.7	302.1	298.6	297.5	296.1
82.5°	224.4	240.2	242.4	243.4	241.7	242.1	239.8	238.8	235.6	235.1	233.0
85°	141.7	157.5	160.1	159.7	158.0	157.6	156.2	156.7	156.4	157.3	157.8
87.5°	65.1	80.4	84.1	82.9	82.7	81.6	79.2	80.1	81.5	82.5	82.6
90°	31.7	37.8	39.3	38.3	36.0	34.8	32.5	31.7	29.7	28.7	26.8
92.5°	40.9	43.3	45.8	43.6	41.5	39.4	37.2	35.0	33.0	30.7	28.7
95°	51.1	54.5	58.0	55.2	52.3	49.5	46.6	43.7	40.9	38.1	35.2
97.5°	57.6	61.6	65.5	62.7	59.8	56.9	54.0	51.2	48.3	45.5	42.6
100°	99.4	108.6	118.0	109.9	101.7	93.6	85.5	77.3	69.2	61.1	53.0
102.5°	224.4	247.1	269.8	249.4	228.8	208.3	187.8	167.3	146.8	126.1	105.7
105°	404.3	438.8	473.3	441.9	410.5	379.2	347.9	316.6	285.2	253.8	222.5
107.5°	544.8	576.9	609.3	581.0	552.7	524.3	495.9	467.6	439.3	410.8	382.6
110°	614.5	639.8	665.5	646.3	627.3	608.2	589.2	570.2	551.2	532.2	513.3



TEST NUMBER: P1444507
 CATALOG NUMBER: EHBR1-18-UNV-TA-L835-UPL15

CANDELA DISTRIBUTION (continued):

	220°	222.5°	225°	227.5°	230°	232.5°	235°	237.5°	240°	242.5°	245°
112.5°	614.2	632.4	651.1	639.9	628.7	617.6	606.4	595.2	584.2	573.0	562.0
115°	561.5	572.2	583.3	578.8	574.4	569.9	565.5	561.0	556.6	552.2	547.9
117.5°	495.8	500.6	506.1	505.2	504.4	503.4	502.7	501.7	501.0	500.1	499.5
120°	427.0	427.7	429.2	429.6	430.1	430.7	431.2	431.7	432.2	432.8	433.4
122.5°	368.8	367.1	366.0	366.4	366.9	367.4	367.8	368.3	368.7	369.3	369.8
125°	327.5	324.5	322.4	321.5	320.8	319.9	319.0	318.1	317.4	316.6	315.9
127.5°	297.4	294.2	291.9	290.0	288.2	286.3	284.5	282.5	280.7	278.9	277.1
130°	276.4	273.2	271.2	268.9	266.6	264.2	261.9	259.7	257.2	254.9	252.6
132.5°	261.2	258.1	256.3	254.1	251.9	249.7	247.4	245.2	242.9	240.7	238.4
135°	251.4	248.6	247.2	245.0	243.2	241.0	238.9	237.0	234.9	232.7	230.9
137.5°	242.7	240.1	238.7	237.1	235.5	233.9	232.3	230.7	229.0	227.3	225.7
140°	235.5	232.6	231.3	230.3	229.5	228.3	227.5	226.5	225.6	224.6	223.6
142.5°	229.9	227.2	226.0	225.3	224.8	224.2	223.7	223.0	222.3	221.7	221.0
145°	224.2	221.1	219.8	219.7	219.7	219.5	219.4	219.3	219.2	219.0	218.9
147.5°	220.3	217.2	215.9	216.0	216.1	216.0	216.2	216.2	216.4	216.3	216.4
150°	215.8	212.3	210.9	211.2	211.3	211.6	211.8	212.0	212.2	212.4	212.6
152.5°	212.2	208.0	206.3	206.6	206.9	207.1	207.5	207.7	208.1	208.4	208.7
155°	209.1	204.6	202.8	202.8	202.9	203.1	203.2	203.3	203.5	203.7	204.0
157.5°	207.4	202.7	201.0	200.9	200.9	201.0	201.0	201.0	201.1	201.2	201.4
160°	206.3	201.8	200.0	199.9	199.9	199.9	199.9	199.8	199.9	200.0	200.2
162.5°	205.4	200.9	199.3	199.1	199.0	199.0	199.1	198.9	199.0	199.0	199.2
165°	204.7	200.8	199.3	199.3	199.4	199.4	199.5	199.5	199.5	199.7	199.9
167.5°	205.9	202.3	201.1	201.0	200.8	200.6	200.6	200.4	200.4	200.3	200.3
170°	205.7	202.7	201.8	201.8	201.9	201.8	201.8	201.9	201.9	201.9	202.0
172.5°	205.7	203.6	202.8	203.0	203.2	203.3	203.5	203.5	203.7	203.9	204.1
175°	206.0	204.8	204.5	204.4	204.5	204.6	204.7	204.7	204.8	204.9	205.2
177.5°	206.9	206.5	206.3	206.3	206.3	206.3	206.3	206.3	206.3	206.4	206.4
180°	206.2	206.2	206.2	206.2	206.2	206.2	206.2	206.2	206.2	206.2	206.2



TEST NUMBER: P1444507
 CATALOG NUMBER: EHBR1-18-UNV-TA-L835-UPL15

CANDELA DISTRIBUTION (continued):

	247.5°	250°	252.5°	255°	257.5°	260°	262.5°	265°	267.5°	270°	272.5°
0°	15340.5	15340.5	15340.5	15340.5	15340.5	15340.5	15340.5	15340.5	15340.5	15340.5	15340.5
2.5°	15460.4	15478.4	15477.1	15493.9	15493.1	15508.9	15505.7	15519.5	15516.3	15528.0	15521.1
5°	15967.5	16001.8	16013.2	16044.0	16050.5	16078.1	16078.7	16100.7	16098.1	16115.3	16106.2
7.5°	16447.3	16479.3	16494.5	16518.5	16530.5	16550.4	16558.2	16574.6	16578.5	16588.2	16587.9
10°	16487.7	16487.6	16495.2	16491.8	16498.5	16494.6	16502.8	16499.8	16512.0	16508.9	16518.0
12.5°	15943.0	15888.9	15869.2	15820.6	15809.9	15768.4	15771.3	15744.6	15757.5	15741.0	15769.0
15°	14772.2	14646.8	14584.8	14475.8	14441.5	14355.3	14348.3	14291.1	14306.6	14276.6	14320.4
17.5°	13042.1	12844.7	12736.3	12577.0	12513.8	12391.9	12367.4	12293.7	12305.2	12268.0	12321.0
20°	10979.3	10740.7	10604.1	10419.8	10337.7	10192.4	10153.9	10071.4	10081.7	10044.8	10104.6
22.5°	8893.0	8643.2	8488.9	8295.9	8191.1	8054.3	8013.3	7930.5	7935.3	7900.6	7958.1
25°	6975.7	6736.3	6586.5	6411.2	6320.2	6194.9	6151.8	6077.5	6081.7	6053.0	6104.6
27.5°	5396.2	5199.8	5074.5	4927.5	4846.0	4742.9	4700.9	4638.4	4638.2	4617.2	4660.4
30°	4216.9	4052.9	3940.4	3812.4	3735.8	3642.9	3602.2	3546.3	3543.9	3528.9	3563.3
32.5°	3301.8	3155.9	3053.2	2940.7	2871.8	2792.1	2753.6	2708.6	2704.6	2691.1	2719.3
35°	2566.7	2443.8	2355.6	2260.8	2267.7	2150.1	2169.6	2078.2	2053.5	2048.0	2069.0
37.5°	1983.7	1888.6	1817.0	1745.9	1697.8	1648.1	1621.3	1597.3	1594.5	1592.2	1606.9
40°	1552.7	1486.1	1434.1	1385.3	1352.2	1321.9	1305.1	1291.9	1288.7	1287.0	1295.9
42.5°	1256.7	1211.7	1178.2	1148.4	1128.3	1111.9	1102.7	1095.3	1092.9	1092.9	1098.1
45°	1061.7	1034.5	1012.9	994.3	981.5	987.2	970.6	979.2	967.8	979.6	971.8
47.5°	935.0	911.8	898.5	885.4	877.5	871.3	871.5	871.6	874.1	874.5	877.0
50°	837.3	823.8	814.5	806.1	802.1	798.8	799.9	800.8	803.1	803.3	805.2
52.5°	764.8	756.0	750.4	745.3	743.4	741.6	742.3	742.0	743.1	742.5	744.1
55°	706.0	701.8	700.1	698.1	698.4	697.8	698.2	696.4	695.2	693.8	695.1
57.5°	657.6	657.0	658.3	659.1	661.3	662.1	662.5	660.4	658.4	656.5	657.6
60°	620.4	621.3	624.2	626.7	629.9	631.3	632.2	630.9	629.5	627.9	628.9
62.5°	583.6	585.1	588.6	591.3	595.2	597.1	599.3	599.4	600.0	599.4	600.1
65°	541.0	542.8	546.0	548.2	551.8	553.6	555.8	556.2	557.4	557.1	558.2
67.5°	508.6	510.2	512.8	515.0	518.2	520.0	521.9	522.0	522.5	522.4	523.5
70°	474.0	474.8	477.2	479.0	482.2	484.0	486.4	487.0	488.4	488.7	489.8
72.5°	437.2	436.9	438.3	439.0	441.5	442.9	445.8	447.5	449.8	450.5	451.3
75°	397.1	396.8	398.4	399.1	401.1	402.7	405.9	408.0	411.7	413.3	412.8
77.5°	350.6	351.4	354.6	356.3	359.1	361.0	365.2	368.6	375.2	378.2	375.2
80°	298.6	299.5	302.8	304.5	308.0	310.3	315.0	318.9	325.0	326.4	324.6
82.5°	234.8	235.0	237.9	239.2	243.9	247.3	253.3	256.4	260.1	259.6	259.1
85°	160.1	162.2	166.0	169.7	175.3	180.8	186.5	191.1	187.8	193.0	187.1
87.5°	85.5	85.3	90.4	89.6	97.5	102.1	107.0	109.4	112.0	111.4	111.5
90°	26.1	24.7	24.5	23.1	23.4	21.7	22.4	20.9	21.8	20.1	22.8
92.5°	26.5	25.4	24.1	23.1	21.8	20.8	19.6	18.4	17.3	16.1	17.3
95°	32.4	31.3	30.3	29.1	28.0	27.0	25.9	24.8	23.8	22.7	24.0
97.5°	39.8	39.2	38.5	37.9	37.2	36.7	36.0	35.4	34.6	34.0	34.9
100°	44.9	44.9	44.9	44.9	44.8	44.8	44.8	44.8	44.8	44.8	45.5
102.5°	85.1	83.1	81.1	79.0	77.0	74.9	72.8	70.8	68.7	66.7	69.7
105°	191.3	183.3	175.2	167.2	159.1	151.2	143.1	135.1	127.1	119.1	127.3
107.5°	354.4	339.7	325.1	310.5	295.8	281.2	266.6	252.0	237.5	222.8	235.9
110°	494.3	478.7	463.2	447.7	432.1	416.6	401.1	385.6	370.1	354.6	367.1



TEST NUMBER: P1444507
 CATALOG NUMBER: EHBR1-18-UNV-TA-L835-UPL15

CANDELA DISTRIBUTION (continued):

	247.5°	250°	252.5°	255°	257.5°	260°	262.5°	265°	267.5°	270°	272.5°
112.5°	550.9	540.8	530.7	520.7	510.6	500.7	490.7	480.7	470.8	460.8	466.8
115°	543.6	538.7	533.9	529.1	524.4	519.5	514.7	510.0	505.3	500.5	500.9
117.5°	498.6	496.9	495.3	493.6	492.1	490.5	489.0	487.4	485.9	484.4	481.0
120°	434.1	434.4	434.9	435.4	435.8	436.4	436.8	437.4	438.1	438.7	434.1
122.5°	370.3	371.5	372.5	373.6	374.9	376.1	377.3	378.5	379.9	381.3	376.7
125°	315.0	316.1	317.2	318.2	319.3	320.6	321.8	323.1	324.3	325.8	322.0
127.5°	275.3	275.6	275.9	276.1	276.6	277.0	277.6	278.2	278.9	279.4	277.0
130°	250.4	249.8	249.2	248.8	248.3	248.0	247.6	247.4	247.3	247.1	246.0
132.5°	236.2	235.1	234.0	233.0	231.9	231.1	230.1	229.4	228.5	228.0	227.6
135°	228.7	227.3	225.8	224.4	223.0	221.8	220.5	219.4	218.4	217.3	217.6
137.5°	224.0	222.6	221.1	219.7	218.4	217.1	215.7	214.7	213.6	212.5	213.0
140°	222.6	221.1	219.6	218.3	217.0	215.7	214.6	213.5	212.2	211.4	211.7
142.5°	220.3	219.1	217.8	216.5	215.3	214.1	213.0	212.1	211.0	210.2	210.5
145°	218.7	217.9	216.8	215.8	215.1	214.2	213.3	212.6	211.9	211.4	211.6
147.5°	216.5	215.7	215.0	214.3	213.6	213.0	212.4	211.9	211.4	211.0	211.0
150°	212.8	212.4	212.0	211.6	211.0	210.7	210.3	209.9	209.6	209.4	209.3
152.5°	209.0	208.6	208.2	207.8	207.3	207.1	206.7	206.4	206.2	205.9	205.9
155°	204.2	204.0	203.8	203.6	203.4	203.5	203.3	203.3	203.2	203.1	203.2
157.5°	201.5	201.5	201.4	201.5	201.5	201.6	201.5	201.7	201.6	201.8	201.9
160°	200.4	200.3	200.2	200.2	200.2	200.1	200.0	200.1	200.1	200.1	200.3
162.5°	199.3	199.5	199.5	199.5	199.7	199.8	200.0	200.3	200.4	200.6	200.8
165°	200.1	200.0	200.0	199.9	200.0	200.0	200.0	200.2	200.2	200.3	200.6
167.5°	200.2	200.4	200.4	200.6	200.7	200.8	201.0	201.3	201.5	201.8	202.0
170°	202.0	202.0	202.0	202.0	202.0	202.1	202.2	202.2	202.3	202.4	202.6
172.5°	204.3	204.3	204.2	204.3	204.2	204.3	204.3	204.3	204.3	204.4	204.5
175°	205.1	205.4	205.5	205.6	205.7	205.8	205.9	205.9	206.0	206.1	206.1
177.5°	206.4	206.4	206.4	206.4	206.4	206.5	206.5	206.5	206.5	206.4	206.5
180°	206.2	206.2	206.2	206.2	206.2	206.2	206.2	206.2	206.2	206.2	206.2



TEST NUMBER: P1444507
 CATALOG NUMBER: EHBR1-18-UNV-TA-L835-UPL15

CANDELA DISTRIBUTION (continued):

	275°	277.5°	280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°
0°	15340.5	15340.5	15340.5	15340.5	15340.5	15340.5	15340.5	15340.5	15340.5	15340.5	15340.5
2.5°	15532.5	15524.8	15532.7	15524.7	15532.7	15523.0	15529.6	15519.2	15521.8	15510.9	15513.7
5°	16119.8	16107.4	16114.0	16097.9	16099.7	16078.1	16077.8	16052.7	16046.1	16017.6	16005.1
7.5°	16594.8	16590.7	16593.0	16582.6	16581.5	16566.7	16559.8	16539.1	16526.1	16499.8	16482.0
10°	16519.6	16531.7	16534.8	16547.2	16549.7	16562.0	16564.5	16576.7	16579.2	16588.4	16588.5
12.5°	15767.7	15808.8	15818.7	15869.4	15890.8	15948.9	15980.0	16044.0	16082.1	16145.9	16185.2
15°	14319.2	14390.3	14418.6	14517.8	14572.7	14688.5	14761.1	14894.0	14987.9	15129.1	15229.7
17.5°	12325.6	12425.0	12469.8	12604.3	12692.0	12862.9	12986.0	13188.7	13343.8	13569.1	13747.7
20°	10114.9	10225.3	10286.2	10439.6	10543.2	10742.7	10896.5	11145.6	11353.2	11638.6	11882.7
22.5°	7976.1	8081.2	8148.9	8304.9	8421.4	8629.6	8801.4	9064.4	9297.1	9618.7	9911.3
25°	6124.1	6220.5	6281.6	6422.8	6532.2	6723.5	6887.6	7140.4	7368.1	7690.7	7990.8
27.5°	4681.8	4762.5	4821.4	4941.8	5038.3	5200.6	5341.5	5550.5	5746.6	6025.8	6292.9
30°	3584.3	3655.9	3713.2	3818.0	3907.5	4048.2	4172.1	4347.6	4510.0	4732.0	4944.6
32.5°	2739.1	2800.7	2851.7	2943.5	3024.6	3151.3	3263.0	3416.7	3556.2	3744.5	3919.4
35°	2088.4	2209.6	2200.9	2327.6	2347.9	2438.8	2538.4	2673.0	2796.4	2956.5	3105.3
37.5°	1620.9	1655.0	1691.5	1747.4	1806.2	1888.9	1973.1	2137.4	2197.7	2318.7	2442.0
40°	1307.1	1330.1	1354.3	1392.1	1433.2	1491.5	1552.7	1631.2	1711.5	1809.7	1909.9
42.5°	1105.1	1118.1	1133.4	1155.7	1181.0	1217.9	1259.0	1312.1	1368.0	1437.1	1507.6
45°	987.4	981.2	985.7	997.6	1012.9	1035.4	1061.2	1094.1	1130.6	1175.3	1222.9
47.5°	877.5	880.0	881.4	887.9	896.0	911.2	926.9	949.2	992.3	1005.5	1031.5
50°	805.1	806.2	805.9	809.1	813.3	823.1	833.3	848.4	863.4	883.5	902.6
52.5°	744.3	746.0	745.7	747.9	750.1	756.3	762.7	773.5	783.4	796.1	807.0
55°	696.3	698.6	699.5	701.3	702.4	705.7	708.2	713.3	717.5	724.8	731.4
57.5°	659.3	662.5	664.1	664.7	663.4	663.2	662.3	663.4	664.3	668.2	671.8
60°	630.4	632.9	633.3	632.9	630.5	628.8	626.1	625.2	624.7	626.7	628.7
62.5°	599.9	600.9	600.2	599.4	596.7	595.1	592.2	591.2	590.2	591.6	592.6
65°	557.8	558.6	557.8	557.4	554.9	553.7	551.2	550.5	549.1	549.4	549.2
67.5°	523.7	524.5	523.9	523.2	521.6	520.7	518.9	517.8	516.1	515.5	514.4
70°	489.7	490.2	489.3	488.7	486.7	486.0	484.3	484.0	482.7	482.4	481.1
72.5°	450.5	450.5	449.1	448.7	447.3	447.3	446.6	447.2	447.2	447.9	447.6
75°	410.3	409.8	408.1	407.8	406.8	407.2	406.5	407.4	407.6	409.1	409.3
77.5°	370.2	368.2	364.9	363.3	361.2	360.9	359.6	360.5	360.2	362.0	362.6
80°	319.5	317.0	312.8	310.9	308.2	307.9	306.7	307.9	307.3	309.3	310.7
82.5°	255.1	252.9	248.6	247.0	244.1	244.3	243.1	244.3	244.2	247.1	248.8
85°	188.7	187.2	182.8	178.9	174.5	171.9	169.4	169.0	168.2	169.4	170.5
87.5°	109.0	107.6	104.1	101.9	94.2	94.5	91.5	91.3	90.7	90.0	91.5
90°	22.6	25.0	24.9	27.1	27.2	29.8	30.2	32.5	32.6	35.0	35.5
92.5°	18.4	19.6	20.7	21.8	23.0	24.1	25.3	26.5	29.0	31.3	33.9
95°	25.4	26.7	28.0	29.4	30.7	32.0	33.4	34.7	38.4	42.0	45.7
97.5°	35.9	36.7	37.6	38.5	39.4	40.3	41.2	42.1	46.1	50.0	53.9
100°	46.3	46.9	47.6	48.4	49.1	49.7	50.5	51.2	58.9	66.4	74.0
102.5°	72.7	75.8	78.8	81.8	84.8	87.9	91.0	94.0	111.4	128.8	146.1
105°	135.6	143.9	152.2	160.5	168.8	177.1	185.5	193.7	221.6	249.3	277.2
107.5°	249.0	262.1	275.2	288.4	301.5	314.5	327.6	340.8	367.9	395.1	422.3
110°	379.5	392.0	404.4	417.0	429.4	442.0	454.5	467.1	483.4	499.6	516.0



TEST NUMBER: P1444507
 CATALOG NUMBER: EHBR1-18-UNV-TA-L835-UPL15

CANDELA DISTRIBUTION (continued):

	275°	277.5°	280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°
112.5°	472.9	478.9	485.1	491.1	497.3	503.4	509.6	515.7	524.0	532.0	540.3
115°	501.3	501.7	502.2	502.5	502.9	503.4	503.9	504.5	507.1	509.7	512.3
117.5°	477.7	474.3	471.0	467.8	464.5	461.3	458.1	455.0	454.6	454.0	453.7
120°	429.7	425.4	420.9	416.4	412.1	407.7	403.5	399.2	397.1	394.8	392.8
122.5°	372.3	367.9	363.4	359.1	354.9	350.5	346.3	342.2	340.7	339.3	337.7
125°	318.2	314.6	311.0	307.4	303.9	300.4	296.9	293.5	293.5	293.5	293.6
127.5°	274.8	272.7	270.4	268.3	266.3	264.3	262.3	260.2	261.4	262.5	263.5
130°	245.0	244.2	243.3	242.3	241.7	241.0	240.2	239.5	241.4	243.1	245.0
132.5°	227.6	227.5	227.4	227.5	227.5	227.6	227.9	227.9	230.0	232.0	234.1
135°	217.9	218.2	218.6	219.0	219.6	220.1	220.8	221.4	223.4	225.2	227.3
137.5°	213.5	214.0	214.6	215.3	216.0	216.6	217.5	218.3	219.8	221.4	222.9
140°	212.2	212.3	212.9	213.5	214.1	214.6	215.4	215.9	217.3	218.6	219.8
142.5°	211.0	211.3	211.8	212.2	212.8	213.4	214.0	214.6	215.4	216.4	217.5
145°	211.9	212.2	212.5	212.9	213.3	213.8	214.3	214.7	215.4	215.8	216.6
147.5°	211.2	211.4	211.7	212.0	212.3	212.6	212.8	213.1	213.6	214.0	214.5
150°	209.4	209.5	209.7	209.8	210.1	210.3	210.5	210.7	211.1	211.4	211.8
152.5°	206.1	206.1	206.2	206.4	206.6	206.7	206.8	207.0	207.4	207.7	208.1
155°	203.4	203.6	203.8	204.0	204.3	204.4	204.7	204.9	205.2	205.4	205.7
157.5°	202.1	202.2	202.5	202.7	202.8	203.0	203.3	203.4	203.7	203.9	204.1
160°	200.6	201.0	201.2	201.5	201.8	202.1	202.4	202.7	202.9	203.1	203.3
162.5°	201.0	201.2	201.5	201.7	201.9	202.1	202.3	202.5	202.8	203.0	203.4
165°	200.9	201.2	201.6	201.8	202.2	202.6	202.7	203.1	203.2	203.5	203.7
167.5°	202.4	202.6	202.9	203.1	203.4	203.7	204.0	204.3	204.5	204.6	204.9
170°	202.8	203.1	203.3	203.5	203.8	204.0	204.3	204.6	204.9	205.1	205.4
172.5°	204.7	204.9	205.1	205.2	205.4	205.7	205.9	206.0	206.3	206.5	206.7
175°	206.1	206.1	206.2	206.2	206.3	206.3	206.4	206.5	206.5	206.6	206.6
177.5°	206.6	206.7	206.8	206.9	207.0	207.1	207.2	207.3	207.3	207.3	207.3
180°	206.2	206.2	206.2	206.2	206.2	206.2	206.2	206.2	206.2	206.2	206.2



TEST NUMBER: P1444507
 CATALOG NUMBER: EHBR1-18-UNV-TA-L835-UPL15

CANDELA DISTRIBUTION (continued):

	302.5°	305°	307.5°	310°	312.5°	315°	317.5°	320°	322.5°	325°	327.5°
0°	15340.5	15340.5	15340.5	15340.5	15340.5	15340.5	15340.5	15340.5	15340.5	15340.5	15340.5
2.5°	15502.9	15503.5	15491.0	15490.4	15478.6	15477.2	15465.7	15462.2	15453.0	15449.6	15440.2
5°	15973.2	15958.0	15922.8	15902.1	15867.4	15844.3	15806.7	15782.1	15745.8	15718.3	15681.8
7.5°	16448.9	16425.3	16385.7	16353.7	16305.5	16266.9	16210.5	16164.2	16103.1	16050.1	15985.8
10°	16588.5	16584.8	16574.7	16560.0	16537.6	16512.3	16473.9	16433.8	16380.3	16322.0	16250.6
12.5°	16245.1	16282.3	16332.8	16362.7	16399.2	16415.2	16430.1	16426.3	16416.5	16387.1	16345.8
15°	15375.6	15479.7	15617.7	15724.5	15847.5	15936.9	16035.6	16097.2	16158.4	16186.7	16204.1
17.5°	13992.3	14189.5	14436.8	14641.8	14878.2	15068.2	15276.4	15433.2	15594.3	15709.8	15814.2
20°	12215.4	12501.1	12851.0	13160.0	13519.2	13831.4	14173.6	14454.5	14744.2	14970.7	15185.1
22.5°	10288.2	10627.5	11050.4	11442.1	11905.3	12321.5	12791.2	13200.0	13626.8	13983.4	14328.2
25°	8392.9	8765.2	9227.5	9664.6	10189.2	10673.4	11230.3	11739.9	12291.5	12770.4	13243.6
27.5°	6662.4	7027.8	7499.8	7965.1	8519.9	9035.8	9632.6	10193.9	10822.0	11401.2	11993.7
30°	5240.0	5549.9	5973.2	6423.8	6971.0	7496.0	8099.2	8676.5	9330.0	9962.5	10629.8
32.5°	4151.5	4387.6	4720.4	5101.5	5606.2	6106.0	6680.5	7237.7	7881.3	8520.1	9214.2
35°	3297.1	3481.2	3735.0	4032.3	4459.8	4890.6	5398.7	5905.5	6505.9	7112.1	7786.7
37.5°	2599.9	2749.4	2948.0	3171.4	3514.3	3867.9	4284.5	4704.6	5226.3	5763.6	6375.2
40°	2030.3	2151.2	2306.0	2472.5	2731.4	3003.9	3326.1	3651.9	4071.0	4510.2	5016.2
42.5°	1594.9	1684.1	1793.4	1915.2	2156.7	2301.4	2519.8	2755.6	3063.6	3382.4	3762.9
45°	1280.9	1341.8	1417.5	1499.1	1611.3	1734.0	1883.6	2040.6	2333.2	2476.8	2708.1
47.5°	1069.7	1110.5	1158.7	1210.2	1276.3	1347.7	1436.4	1527.2	1644.5	1766.1	1908.7
50°	927.4	968.9	985.5	1012.2	1050.4	1091.2	1141.2	1191.3	1254.2	1318.0	1391.4
52.5°	821.9	835.3	853.4	870.3	894.0	940.4	955.5	981.5	1016.8	1051.4	1090.0
55°	741.2	750.0	761.7	771.9	786.3	800.0	819.8	837.2	860.7	881.5	907.1
57.5°	678.4	684.1	692.2	698.9	708.2	715.9	727.5	736.9	750.5	762.2	777.7
60°	632.9	636.6	642.1	646.4	652.4	656.3	662.2	666.5	673.7	679.7	688.3
62.5°	595.6	597.6	601.1	603.7	607.5	609.5	612.5	614.4	618.4	621.4	626.3
65°	550.9	551.3	553.8	554.8	557.8	558.9	561.4	562.3	565.5	567.7	572.0
67.5°	514.3	513.3	513.3	512.4	512.8	512.1	512.3	511.4	512.6	513.3	516.6
70°	480.8	479.5	479.0	477.4	477.0	475.4	474.9	473.6	473.4	472.9	474.0
72.5°	448.3	447.9	448.0	446.9	446.8	445.7	445.8	445.2	445.8	446.2	447.7
75°	410.8	410.9	411.7	410.7	411.0	410.1	410.4	409.6	410.1	409.9	411.3
77.5°	365.3	366.3	368.3	367.9	368.6	367.5	368.0	366.8	367.1	366.3	366.9
80°	314.0	316.2	318.9	318.8	319.9	319.2	320.2	319.1	319.5	318.1	317.8
82.5°	253.1	255.0	257.8	257.9	260.4	260.9	263.6	263.5	265.3	264.2	263.4
85°	173.0	174.3	176.9	178.2	180.7	182.3	185.0	186.1	184.1	187.7	184.9
87.5°	90.4	93.7	91.8	96.2	95.2	99.6	98.6	102.8	101.9	105.5	105.0
90°	38.5	39.3	42.4	43.2	47.0	48.2	49.5	48.0	49.4	47.9	49.1
92.5°	36.4	38.9	41.4	43.9	46.3	49.0	46.5	44.2	42.0	39.8	37.3
95°	49.4	52.9	56.6	60.3	63.9	67.6	63.7	59.8	55.9	52.0	48.1
97.5°	57.9	61.8	65.7	69.6	73.6	77.5	72.8	68.2	63.6	59.0	54.4
100°	81.5	89.2	96.8	104.3	112.0	119.6	111.0	102.4	93.8	85.1	76.4
102.5°	163.6	181.0	198.5	215.8	233.2	250.6	232.3	214.1	195.7	177.4	159.1
105°	305.0	333.0	360.7	388.6	416.4	444.4	414.7	384.9	355.4	325.7	295.9
107.5°	449.4	476.6	503.8	531.0	558.1	585.4	555.3	525.1	495.2	464.9	434.9
110°	532.4	548.7	565.1	581.5	597.9	614.3	592.2	570.3	548.4	526.4	504.4



TEST NUMBER: P1444507
 CATALOG NUMBER: EHBR1-18-UNV-TA-L835-UPL15

CANDELA DISTRIBUTION (continued):

	302.5°	305°	307.5°	310°	312.5°	315°	317.5°	320°	322.5°	325°	327.5°
112.5°	548.4	556.7	564.8	573.1	581.3	589.6	573.9	558.3	542.6	526.9	511.2
115°	515.1	517.6	520.3	523.0	525.7	528.3	517.9	507.3	496.6	486.2	475.5
117.5°	453.3	452.9	452.4	452.2	451.6	451.4	445.5	439.6	433.7	427.7	421.9
120°	390.7	388.5	386.4	384.4	382.2	380.0	377.7	375.1	372.7	370.2	367.7
122.5°	336.4	335.0	333.5	332.1	330.5	329.1	328.2	327.3	326.4	325.4	324.5
125°	293.6	293.6	293.6	293.6	293.6	293.6	293.2	292.8	292.2	291.9	291.4
127.5°	264.5	265.7	266.6	267.7	268.6	269.7	269.6	269.6	269.5	269.4	269.4
130°	246.7	248.5	250.3	251.9	253.6	255.4	255.2	254.9	254.8	254.5	254.3
132.5°	236.2	238.1	240.2	242.3	244.2	246.1	245.9	245.6	245.2	245.0	244.6
135°	229.2	231.1	232.9	234.9	236.7	238.5	238.1	237.8	237.4	237.1	236.7
137.5°	224.5	226.0	227.5	229.0	230.5	231.9	231.5	231.3	230.7	230.4	230.0
140°	221.0	222.3	223.4	224.7	225.8	227.0	226.5	226.0	225.4	225.0	224.4
142.5°	218.4	219.2	220.1	221.1	221.9	222.8	221.9	221.3	220.6	219.8	219.0
145°	217.2	217.8	218.4	219.0	219.3	220.0	219.1	218.3	217.3	216.5	215.6
147.5°	214.9	215.2	215.4	215.9	216.1	216.5	215.6	214.8	214.0	213.1	212.2
150°	212.1	212.4	212.6	213.0	213.3	213.6	212.7	211.8	210.9	209.9	209.1
152.5°	208.4	208.7	208.9	209.1	209.4	209.7	208.8	208.1	207.1	206.2	205.3
155°	205.8	206.0	206.1	206.4	206.4	206.6	205.9	205.3	204.4	203.7	202.9
157.5°	204.3	204.5	204.7	204.8	205.0	205.1	204.6	204.0	203.4	202.8	202.3
160°	203.5	203.6	203.8	203.9	204.1	204.2	203.6	203.3	202.8	202.4	201.8
162.5°	203.7	203.9	204.1	204.3	204.6	204.8	204.3	203.7	203.2	202.7	202.0
165°	203.8	204.0	204.2	204.4	204.4	204.6	204.1	203.9	203.4	203.0	202.7
167.5°	205.0	205.2	205.3	205.5	205.6	205.7	205.2	205.0	204.5	204.2	203.7
170°	205.6	205.7	205.9	206.1	206.3	206.4	206.1	205.9	205.6	205.3	205.0
172.5°	206.9	207.0	207.1	207.3	207.4	207.7	207.3	207.0	206.7	206.3	206.0
175°	206.6	206.7	206.8	206.8	206.8	206.9	206.6	206.3	206.1	205.9	205.6
177.5°	207.3	207.3	207.3	207.3	207.3	207.3	207.1	206.9	206.7	206.5	206.3
180°	206.2	206.2	206.2	206.2	206.2	206.2	206.2	206.2	206.2	206.2	206.2



TEST NUMBER: P1444507
 CATALOG NUMBER: EHBR1-18-UNV-TA-L835-UPL15

CANDELA DISTRIBUTION (continued):

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
0°	15340.5	15340.5	15340.5	15340.5	15340.5	15340.5	15340.5	15340.5	15340.5	15340.5	15340.5
2.5°	15436.8	15430.1	15425.9	15420.4	15417.0	15412.7	15409.6	15406.9	15404.7	15402.7	15401.3
5°	15653.9	15619.4	15592.7	15563.7	15539.8	15516.1	15497.7	15482.6	15472.1	15464.3	15459.6
7.5°	15930.3	15867.2	15810.9	15751.9	15698.8	15646.7	15601.8	15563.1	15534.0	15515.2	15503.7
10°	16177.1	16092.6	16008.9	15920.9	15837.5	15756.5	15681.8	15616.0	15564.1	15529.4	15509.3
12.5°	16287.8	16215.7	16130.3	16034.7	15932.4	15829.0	15728.1	15637.2	15560.9	15509.6	15480.0
15°	16190.3	16160.8	16102.8	16028.6	15931.5	15824.6	15706.1	15594.8	15492.4	15426.0	15387.5
17.5°	15873.4	15914.6	15910.2	15881.8	15812.1	15722.0	15601.3	15476.3	15348.2	15259.4	15210.9
20°	15338.4	15468.2	15534.0	15567.8	15540.4	15482.0	15372.7	15245.8	15096.5	14980.6	14909.9
22.5°	14586.8	14815.9	14958.6	15063.1	15085.3	15065.3	14968.8	14848.2	14681.7	14542.5	14438.0
25°	13619.1	13954.8	14180.3	14357.2	14425.9	14443.7	14361.5	14241.5	14056.0	13893.8	13750.3
27.5°	12479.4	12915.4	13216.7	13454.4	13561.6	13608.1	13532.5	13410.0	13190.6	12996.9	12809.6
30°	11196.3	11713.6	12076.3	12361.2	12492.0	12553.5	12473.2	12336.5	12081.2	11848.0	11612.0
32.5°	9822.9	10389.1	10784.2	11093.7	11223.3	11281.0	11176.0	11022.5	10727.4	10452.8	10177.5
35°	8385.0	8956.5	9355.0	9656.3	9764.8	9799.7	9665.4	9487.9	9160.9	8859.5	8559.3
37.5°	6917.9	7449.5	7811.7	8082.1	8149.3	8155.3	7993.5	7797.5	7453.8	7156.6	6857.7
40°	5463.3	5911.7	6204.1	6420.5	6443.9	6423.1	6247.2	6049.9	5728.3	5462.1	5199.8
42.5°	4093.3	4431.7	4640.4	4788.7	4779.8	4738.7	4577.5	4407.9	4142.6	3939.9	3733.4
45°	2919.5	3142.7	3264.7	3351.5	3323.6	3284.4	3158.9	3040.1	2859.8	2728.8	2590.0
47.5°	2028.3	2294.7	2248.4	2417.9	2271.8	2368.4	2167.3	2056.5	1960.9	1891.2	1812.8
50°	1452.0	1513.1	1542.6	1562.7	1552.1	1537.2	1501.1	1468.8	1425.1	1393.2	1356.1
52.5°	1121.4	1151.9	1168.6	1180.7	1178.4	1172.9	1157.2	1142.8	1122.3	1108.9	1092.6
55°	949.8	950.3	981.1	967.9	987.4	964.5	973.5	948.2	952.3	930.5	916.0
57.5°	789.3	801.8	807.4	812.9	811.4	810.4	804.3	801.2	794.3	792.3	787.3
60°	694.3	700.8	702.2	704.7	702.6	701.8	697.1	695.3	690.8	689.9	686.6
62.5°	629.2	632.5	632.5	632.5	629.8	627.2	621.8	619.1	615.1	614.4	612.4
65°	574.8	578.3	578.9	579.5	577.6	575.6	570.9	567.8	563.8	562.3	560.1
67.5°	518.6	522.3	523.6	525.5	524.4	524.0	520.8	519.6	516.9	516.3	514.3
70°	474.6	476.2	476.1	476.0	473.5	471.2	467.6	465.8	463.0	462.4	460.7
72.5°	448.4	449.5	448.8	447.9	444.6	441.3	437.0	433.8	430.1	427.9	425.3
75°	411.5	413.0	412.0	411.4	408.5	406.4	402.9	401.1	398.5	397.8	396.1
77.5°	366.2	366.9	365.4	365.3	363.0	361.7	359.1	358.6	356.7	356.7	355.1
80°	315.8	315.3	313.0	312.5	310.3	309.7	307.7	307.9	306.3	307.0	305.7
82.5°	259.9	258.4	255.3	254.3	251.8	251.6	250.3	251.3	250.5	251.8	251.0
85°	186.2	186.6	185.2	185.2	184.5	184.7	184.6	185.5	185.6	186.8	186.7
87.5°	103.8	105.3	105.0	106.4	106.3	107.8	108.4	110.6	110.9	113.1	113.1
90°	47.7	49.2	47.7	49.3	48.7	50.6	50.4	52.4	52.0	53.5	52.7
92.5°	35.0	32.8	30.5	28.1	27.0	25.7	24.7	23.4	22.3	21.0	19.9
95°	44.1	40.2	36.3	32.4	31.0	29.6	28.3	27.0	25.6	24.2	23.0
97.5°	49.7	45.2	40.5	35.9	34.7	33.5	32.3	31.1	30.0	28.8	27.6
100°	67.8	59.1	50.6	41.9	40.9	39.9	39.0	38.0	36.9	36.0	35.0
102.5°	140.9	122.5	104.1	85.8	82.3	78.8	75.4	71.8	68.4	64.9	61.5
105°	266.3	236.6	206.8	177.1	167.6	158.1	148.7	139.3	129.8	120.4	111.0
107.5°	404.6	374.5	344.3	314.2	296.8	279.3	261.9	244.3	227.0	209.4	192.0
110°	482.5	460.5	438.5	416.4	402.4	388.3	374.3	360.2	346.2	332.0	317.9



TEST NUMBER: P1444507
 CATALOG NUMBER: EHBR1-18-UNV-TA-L835-UPL15

CANDELA DISTRIBUTION (continued):

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
112.5°	495.5	479.8	464.0	448.2	441.9	435.5	429.2	422.8	416.4	409.9	403.6
115°	464.9	454.3	443.6	432.8	430.7	428.5	426.3	424.0	421.8	419.5	417.2
117.5°	415.9	410.0	403.8	397.9	398.3	398.8	399.1	399.5	399.8	400.1	400.4
120°	365.1	362.6	360.1	357.5	359.5	361.5	363.4	365.3	367.2	368.9	370.8
122.5°	323.6	322.5	321.6	320.6	323.0	325.3	327.6	330.0	332.2	334.3	336.5
125°	291.0	290.4	290.0	289.4	292.0	294.3	296.6	298.9	301.2	303.3	305.5
127.5°	269.3	269.1	269.1	268.9	270.7	272.3	274.0	275.6	277.2	278.7	280.1
130°	254.0	253.7	253.6	253.4	254.9	256.5	258.1	259.5	260.8	262.1	263.4
132.5°	244.4	244.1	243.8	243.5	244.6	245.7	246.9	247.7	248.8	249.6	250.5
135°	236.4	235.8	235.5	235.0	236.2	237.3	238.2	239.1	240.1	240.8	241.5
137.5°	229.7	229.1	228.7	228.3	229.3	230.3	231.2	231.9	232.7	233.5	234.1
140°	223.9	223.2	222.8	222.2	223.1	223.9	224.8	225.4	226.2	226.7	227.4
142.5°	218.3	217.5	216.9	216.0	216.7	217.2	217.8	218.4	218.8	219.3	219.7
145°	214.8	213.8	212.9	212.0	212.5	213.0	213.4	213.9	214.2	214.5	214.8
147.5°	211.4	210.4	209.5	208.7	209.1	209.4	209.7	210.0	210.3	210.5	210.7
150°	208.1	207.1	206.1	205.2	205.5	205.8	206.0	206.3	206.4	206.6	206.8
152.5°	204.4	203.4	202.6	201.6	201.8	202.0	202.2	202.4	202.5	202.6	202.7
155°	202.3	201.4	200.6	199.7	200.0	200.1	200.2	200.4	200.4	200.5	200.5
157.5°	201.6	200.9	200.3	199.6	199.6	199.7	199.7	199.6	199.5	199.5	199.5
160°	201.3	200.7	200.2	199.5	199.5	199.5	199.5	199.5	199.5	199.3	199.3
162.5°	201.4	200.8	200.1	199.5	199.5	199.5	199.5	199.4	199.3	199.1	199.0
165°	202.2	201.7	201.3	200.7	200.6	200.5	200.4	200.2	200.1	199.8	199.7
167.5°	203.3	202.8	202.4	201.8	201.8	201.9	201.9	201.8	201.7	201.5	201.5
170°	204.6	204.1	203.8	203.3	203.2	203.2	203.0	202.9	202.8	202.7	202.6
172.5°	205.6	205.2	204.9	204.3	204.3	204.3	204.2	204.1	203.9	203.8	203.8
175°	205.2	205.0	204.6	204.3	204.2	204.2	204.1	204.1	204.0	203.9	203.8
177.5°	206.1	205.9	205.7	205.5	205.5	205.5	205.4	205.3	205.3	205.3	205.2
180°	206.2	206.2	206.2	206.2	206.2	206.2	206.2	206.2	206.2	206.2	206.2



TEST NUMBER: P1444507
 CATALOG NUMBER: EHBR1-18-UNV-TA-L835-UPL15

CANDELA DISTRIBUTION (continued):

	357.5°	360°
0°	15340.5	15340.5
2.5°	15399.9	15399.1
5°	15457.2	15456.2
7.5°	15500.7	15500.4
10°	15505.9	15508.5
12.5°	15474.9	15477.1
15°	15384.6	15388.7
17.5°	15211.8	15217.3
20°	14914.3	14920.0
22.5°	14432.4	14434.7
25°	13731.8	13721.8
27.5°	12776.6	12759.5
30°	11562.4	11545.9
32.5°	10114.7	10104.4
35°	8485.1	8478.6
37.5°	6769.5	6756.1
40°	5103.9	5065.1
42.5°	3643.1	3575.0
45°	2517.6	2436.9
47.5°	1757.5	1707.7
50°	1332.2	1316.1
52.5°	1085.5	1081.7
55°	915.9	914.3
57.5°	788.5	787.9
60°	688.3	688.1
62.5°	613.7	614.0
65°	561.1	561.2
67.5°	514.8	514.5
70°	461.3	461.0
72.5°	424.5	423.8
75°	396.1	395.6
77.5°	355.6	355.0
80°	306.6	305.7
82.5°	252.1	251.2
85°	188.1	188.1
87.5°	115.1	115.0
90°	54.1	52.9
92.5°	18.8	17.7
95°	21.6	20.3
97.5°	26.5	25.3
100°	34.0	33.1
102.5°	58.0	54.5
105°	101.5	92.1
107.5°	174.5	157.1
110°	303.9	289.8



TEST NUMBER: P1444507
CATALOG NUMBER: EHBR1-18-UNV-TA-L835-UPL15

CANDELA DISTRIBUTION (continued):

	357.5°	360°
112.5°	397.1	390.7
115°	414.8	412.5
117.5°	400.6	400.8
120°	372.4	374.2
122.5°	338.5	340.6
125°	307.6	309.6
127.5°	281.4	282.7
130°	264.4	265.7
132.5°	251.1	251.7
135°	242.1	242.7
137.5°	234.6	235.0
140°	227.7	228.2
142.5°	219.9	220.2
145°	215.0	215.2
147.5°	210.6	210.8
150°	206.8	206.9
152.5°	202.7	202.7
155°	200.5	200.5
157.5°	199.3	199.2
160°	199.1	199.0
162.5°	198.8	198.8
165°	199.5	199.2
167.5°	201.3	201.3
170°	202.4	202.3
172.5°	203.6	203.5
175°	203.7	203.7
177.5°	205.2	205.1
180°	206.2	206.2

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



LM-79-2019: Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Report Prepared for

Cooper Lighting Solutions

Metalux

Report Number: SP1-2506-472-3

Test Date: 07/31/2025

Luminaire Tested: EHBR-60-L835-N

Data in this report applies to families of products including EHBR-60-L835-N

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2506-472-3
 Test Lab: COOPER LIGHTING SOLUTIONS
 Photometer: SP1 - 76IN SPHERE
 Measurement Geometry: 4π
 Issue Date: 08/05/2025
 Manufacturer: COOPER LIGHTING SOLUTIONS
 Product Line: Metalux
 Catalog Number: **EHBR-60-L835-N**
 Description: Elevate Round Highbay at, 60000 lumens, 3500K 80CRI LEDs with N lens

Spectral Parameters

CCT (K): 3468
 CIE u': 0.2375
 CIE v': 0.5091
 Duv: -0.0021
 CIE x: 0.4049
 CIE y: 0.3856
 CIE z: 0.2095
 Peak Wavelength (nm): 630
 Dominant Wavelength (nm): 581
 Purity: 37.24544
 Rf: 80.1
 Rg: 101

CRI (Ra):	82.1		
R1:	82.9	R9:	27.6
R2:	85.6	R10:	63.8
R3:	85.9	R11:	81.2
R4:	82.8	R12:	57.2
R5:	81.0	R13:	82.6
R6:	79.7	R14:	91.0
R7:	86.5	R15:	79.4
R8:	72.1		



Test Conditions

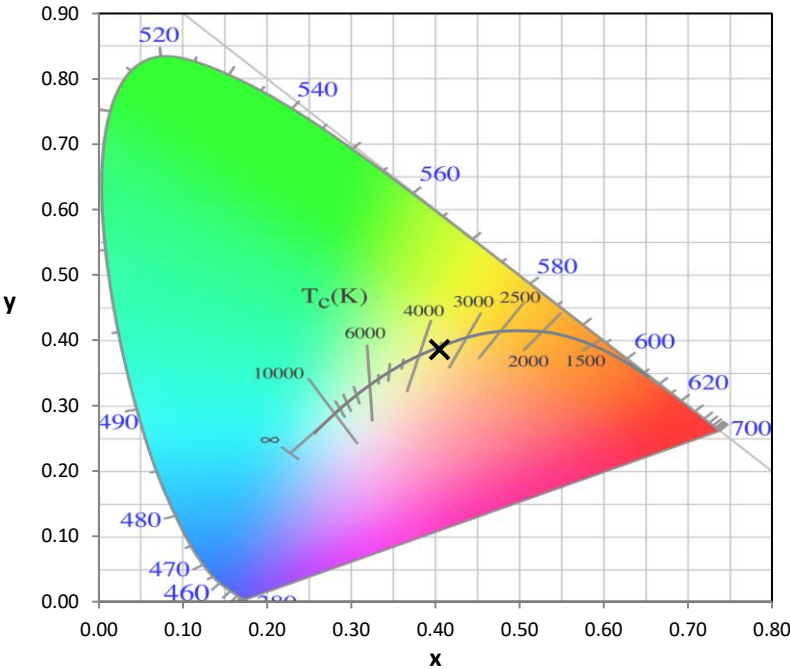
Stabilization Time: 39M
 Operation Time: 1H 39M
 Sphere Temperature (°C): 25.0

REPORT NUMBER: SP1-2506-472-3

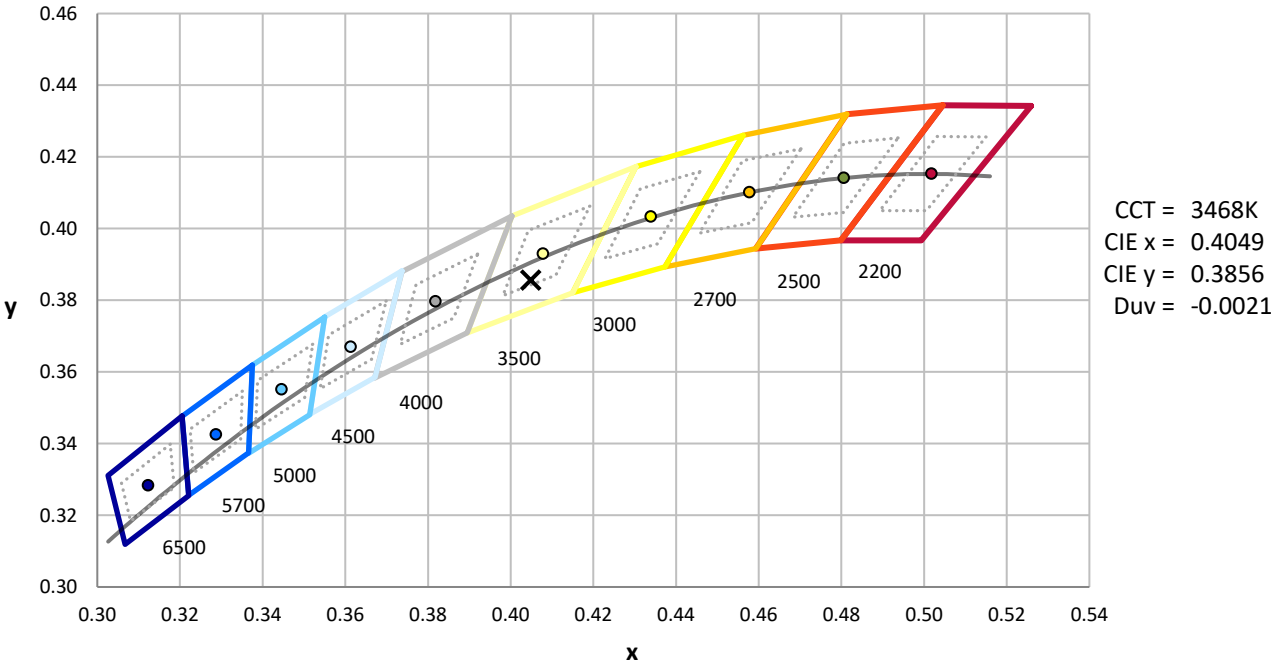
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	6/16/2025	12/16/2025
Power Meter	XITRON INXT2011004	1/21/2025	1/21/2026
AC Power Source	CHROMA 61603 IN0063	10/22/2024	10/22/2025
DC Power Source	AGILENT E3634A IN0208	10/22/2024	10/22/2025
Sphere Thermometer	ONSET IN0085	10/22/2024	10/22/2025
Room Thermometer	ONSET IN0046	10/22/2024	10/22/2025

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CIE 1931 Chromaticity Diagram



CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3500K 4-step quadrangle

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Photopic Flux vs. Wavelength



Photopic Lumens: NR

λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	60	NR	620	327	NR	750	7	NR	880	0	NR
365	0	NR	495	82	NR	625	322	NR	755	6	NR	885	0	NR
370	0	NR	500	114	NR	630	1000	NR	760	5	NR	890	0	NR
375	0	NR	505	152	NR	635	645	NR	765	4	NR	895	0	NR
380	0	NR	510	189	NR	640	197	NR	770	4	NR	900	0	NR
385	1	NR	515	222	NR	645	189	NR	775	3	NR	905	0	NR
390	2	NR	520	248	NR	650	163	NR	780	3	NR	910	0	NR
395	3	NR	525	268	NR	655	134	NR	785	2	NR	915	0	NR
400	4	NR	530	283	NR	660	113	NR	790	2	NR	920	0	NR
405	6	NR	535	294	NR	665	94	NR	795	2	NR	925	0	NR
410	9	NR	540	305	NR	670	87	NR	800	2	NR	930	0	NR
415	18	NR	545	314	NR	675	70	NR	805	1	NR	935	0	NR
420	34	NR	550	323	NR	680	60	NR	810	1	NR	940	0	NR
425	62	NR	555	335	NR	685	51	NR	815	1	NR	945	0	NR
430	102	NR	560	346	NR	690	44	NR	820	1	NR	950	0	NR
435	159	NR	565	356	NR	695	38	NR	825	1	NR	955	0	NR
440	241	NR	570	364	NR	700	32	NR	830	1	NR	960	0	NR
445	363	NR	575	371	NR	705	28	NR	835	1	NR	965	0	NR
450	389	NR	580	375	NR	710	24	NR	840	1	NR	970	0	NR
455	245	NR	585	375	NR	715	20	NR	845	0	NR	975	0	NR
460	158	NR	590	373	NR	720	17	NR	850	0	NR	980	0	NR
465	120	NR	595	364	NR	725	15	NR	855	0	NR	985	0	NR
470	79	NR	600	357	NR	730	13	NR	860	0	NR	990	0	NR
475	57	NR	605	349	NR	735	11	NR	865	0	NR	995	0	NR
480	51	NR	610	371	NR	740	9	NR	870	0	NR	1000	0	NR
485	51	NR	615	387	NR	745	8	NR	875	0	NR			

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Scotopic Flux vs. Wavelength



Scotopic Lumens: NR

S/P: 1.43

λ (nm)	Power W [^] /nm	Lumens (ϕ /nm)	λ (nm)	Power W [^] /nm	Lumens (ϕ /nm)	λ (nm)	Power W [^] /nm	Lumens (ϕ /nm)	λ (nm)	Power W [^] /nm	Lumens (ϕ /nm)	λ (nm)	Power W [^] /nm	Lumens (ϕ /nm)
360	0	NR	490	60	NR	620	327	NR	750	7	NR	880	0	NR
365	0	NR	495	82	NR	625	322	NR	755	6	NR	885	0	NR
370	0	NR	500	114	NR	630	1000	NR	760	5	NR	890	0	NR
375	0	NR	505	152	NR	635	645	NR	765	4	NR	895	0	NR
380	0	NR	510	189	NR	640	197	NR	770	4	NR	900	0	NR
385	1	NR	515	222	NR	645	189	NR	775	3	NR	905	0	NR
390	2	NR	520	248	NR	650	163	NR	780	3	NR	910	0	NR
395	3	NR	525	268	NR	655	134	NR	785	2	NR	915	0	NR
400	4	NR	530	283	NR	660	113	NR	790	2	NR	920	0	NR
405	6	NR	535	294	NR	665	94	NR	795	2	NR	925	0	NR
410	9	NR	540	305	NR	670	87	NR	800	2	NR	930	0	NR
415	18	NR	545	314	NR	675	70	NR	805	1	NR	935	0	NR
420	34	NR	550	323	NR	680	60	NR	810	1	NR	940	0	NR
425	62	NR	555	335	NR	685	51	NR	815	1	NR	945	0	NR
430	102	NR	560	346	NR	690	44	NR	820	1	NR	950	0	NR
435	159	NR	565	356	NR	695	38	NR	825	1	NR	955	0	NR
440	241	NR	570	364	NR	700	32	NR	830	1	NR	960	0	NR
445	363	NR	575	371	NR	705	28	NR	835	1	NR	965	0	NR
450	389	NR	580	375	NR	710	24	NR	840	1	NR	970	0	NR
455	245	NR	585	375	NR	715	20	NR	845	0	NR	975	0	NR
460	158	NR	590	373	NR	720	17	NR	850	0	NR	980	0	NR
465	120	NR	595	364	NR	725	15	NR	855	0	NR	985	0	NR
470	79	NR	600	357	NR	730	13	NR	860	0	NR	990	0	NR
475	57	NR	605	349	NR	735	11	NR	865	0	NR	995	0	NR
480	51	NR	610	371	NR	740	9	NR	870	0	NR	1000	0	NR
485	51	NR	615	387	NR	745	8	NR	875	0	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.75

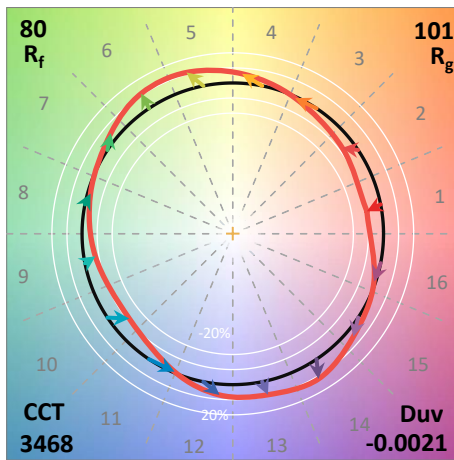
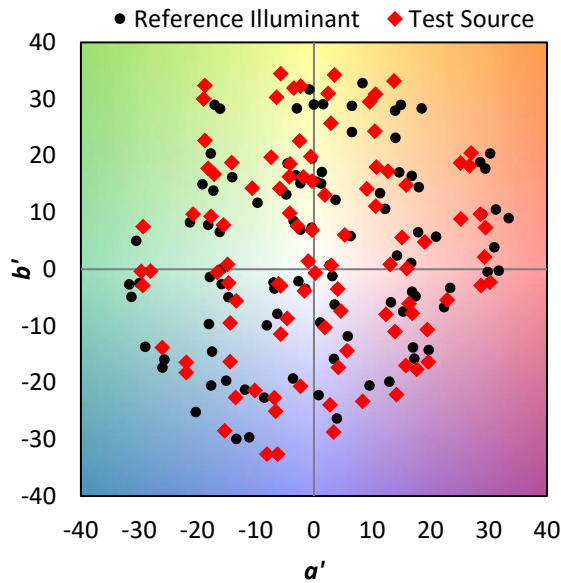
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	60	NR	620	327	NR	750	7	NR	880	0	NR
365	0	NR	495	82	NR	625	322	NR	755	6	NR	885	0	NR
370	0	NR	500	114	NR	630	1000	NR	760	5	NR	890	0	NR
375	0	NR	505	152	NR	635	645	NR	765	4	NR	895	0	NR
380	0	NR	510	189	NR	640	197	NR	770	4	NR	900	0	NR
385	1	NR	515	222	NR	645	189	NR	775	3	NR	905	0	NR
390	2	NR	520	248	NR	650	163	NR	780	3	NR	910	0	NR
395	3	NR	525	268	NR	655	134	NR	785	2	NR	915	0	NR
400	4	NR	530	283	NR	660	113	NR	790	2	NR	920	0	NR
405	6	NR	535	294	NR	665	94	NR	795	2	NR	925	0	NR
410	9	NR	540	305	NR	670	87	NR	800	2	NR	930	0	NR
415	18	NR	545	314	NR	675	70	NR	805	1	NR	935	0	NR
420	34	NR	550	323	NR	680	60	NR	810	1	NR	940	0	NR
425	62	NR	555	335	NR	685	51	NR	815	1	NR	945	0	NR
430	102	NR	560	346	NR	690	44	NR	820	1	NR	950	0	NR
435	159	NR	565	356	NR	695	38	NR	825	1	NR	955	0	NR
440	241	NR	570	364	NR	700	32	NR	830	1	NR	960	0	NR
445	363	NR	575	371	NR	705	28	NR	835	1	NR	965	0	NR
450	389	NR	580	375	NR	710	24	NR	840	1	NR	970	0	NR
455	245	NR	585	375	NR	715	20	NR	845	0	NR	975	0	NR
460	158	NR	590	373	NR	720	17	NR	850	0	NR	980	0	NR
465	120	NR	595	364	NR	725	15	NR	855	0	NR	985	0	NR
470	79	NR	600	357	NR	730	13	NR	860	0	NR	990	0	NR
475	57	NR	605	349	NR	735	11	NR	865	0	NR	995	0	NR
480	51	NR	610	371	NR	740	9	NR	870	0	NR	1000	0	NR
485	51	NR	615	387	NR	745	8	NR	875	0	NR			

Summary

$R_f = 80.1$
 $R_g = 101$
 $CIE R_a = 82.1$
 $R_9 = 27.6$

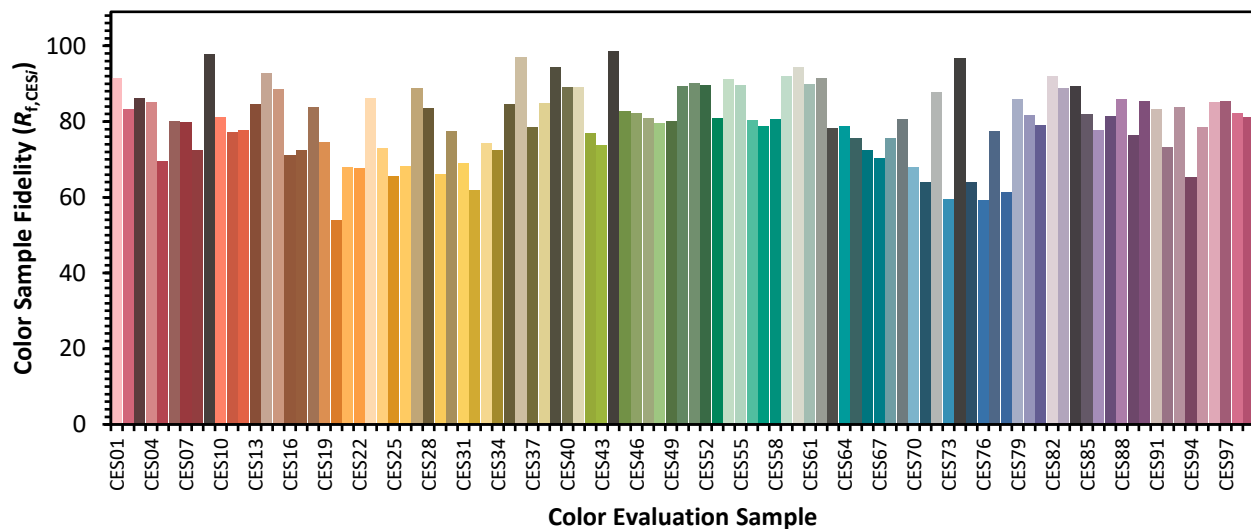


Color Vector Graphics

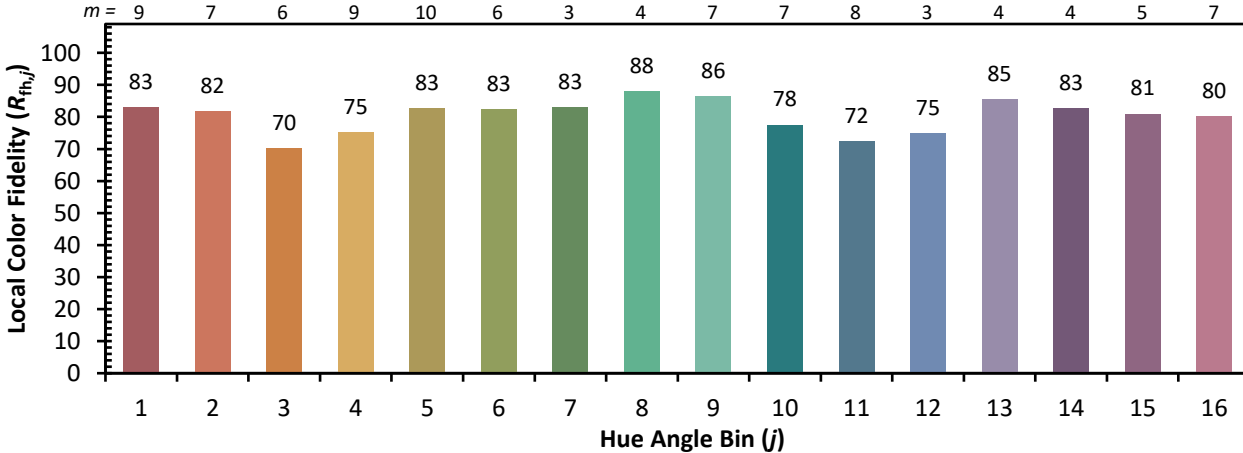


Individual Sample Fidelity Index ($R_{f,i}$)

CES01 = 86	CES26 = 68	CES51 = 90	CES76 = 59
CES02 = 62	CES27 = 89	CES52 = 90	CES77 = 78
CES03 = 31	CES28 = 84	CES53 = 81	CES78 = 61
CES04 = 70	CES29 = 66	CES54 = 91	CES79 = 86
CES05 = 49	CES30 = 77	CES55 = 90	CES80 = 82
CES06 = 51	CES31 = 69	CES56 = 80	CES81 = 79
CES07 = 42	CES32 = 62	CES57 = 79	CES82 = 92
CES08 = 41	CES33 = 74	CES58 = 81	CES83 = 89
CES09 = 29	CES34 = 72	CES59 = 92	CES84 = 89
CES10 = 75	CES35 = 85	CES60 = 94	CES85 = 82
CES11 = 58	CES36 = 97	CES61 = 90	CES86 = 78
CES12 = 64	CES37 = 79	CES62 = 92	CES87 = 82
CES13 = 43	CES38 = 85	CES63 = 78	CES88 = 86
CES14 = 74	CES39 = 94	CES64 = 79	CES89 = 76
CES15 = 71	CES40 = 89	CES65 = 76	CES90 = 85
CES16 = 47	CES41 = 89	CES66 = 73	CES91 = 83
CES17 = 49	CES42 = 77	CES67 = 70	CES92 = 73
CES18 = 56	CES43 = 74	CES68 = 76	CES93 = 84
CES19 = 72	CES44 = 99	CES69 = 81	CES94 = 65
CES20 = 66	CES45 = 83	CES70 = 68	CES95 = 79
CES21 = 86	CES46 = 82	CES71 = 64	CES96 = 85
CES22 = 78	CES47 = 81	CES72 = 88	CES97 = 85
CES23 = 92	CES48 = 80	CES73 = 60	CES98 = 82
CES24 = 91	CES49 = 80	CES74 = 97	CES99 = 81
CES25 = 72	CES50 = 89	CES75 = 64	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)