

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: P1444428

Luminaire Tested: EHBR1-12-UNV-TA-L830-UPL18

Issue Date: 5/1/2026

Test Information

Test Method: LM-79-2019
Report Number: P1444428
REPORT IS A COMBINATION OF REPORTS P1444318 AND P1431635
Test Lab: INNOVATION CENTER
Issue Date: 5/1/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: EHBR1-12-UNV-TA-L830-UPL18
Description: Elevate Round Highbay at, 12000 lumens, 3000K 80CRI LEDs with TA lens
Light Source: -
Ballast/Driver: -

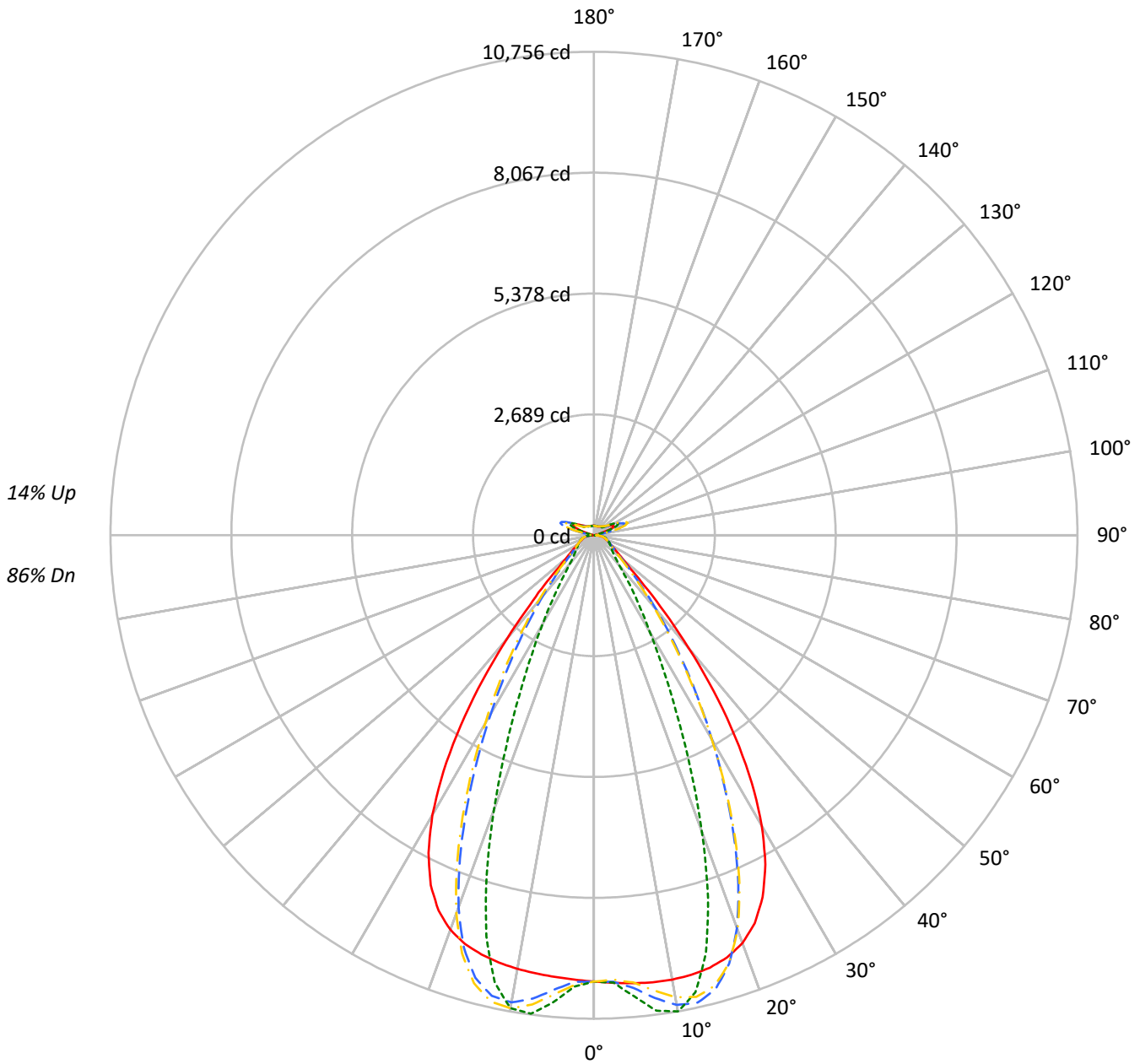
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13223.5 lumens
Efficiency: N/A
Efficacy: 172.6 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: Semi-Direct

Input Watts (W): 76.6
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: P1444428
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Luminous Intensity Polar Plot



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



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				
RC	80				70				50				30				10			0	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	116	116	116	116	112	112	112	112	104	104	104	96	96	96	90	90	90	86			86
1	109	105	102	99	105	102	99	96	95	93	91	89	87	86	83	82	81	78			78
2	102	96	91	87	98	93	88	85	87	84	81	82	79	77	77	75	73	71			71
3	95	88	82	77	92	85	80	75	80	76	72	76	73	70	72	69	67	65			65
4	89	81	74	69	86	78	73	68	74	70	66	71	67	63	67	64	61	59			59
5	84	74	68	63	81	73	66	62	69	64	60	66	62	58	63	59	56	54			54
6	79	69	62	57	77	67	61	57	65	59	55	62	57	54	59	55	52	50			50
7	75	64	57	53	72	63	57	52	60	55	51	58	53	50	56	52	48	47			47
8	71	60	53	49	69	59	53	48	57	51	47	54	50	46	52	48	45	43			43
9	67	56	50	45	65	55	49	45	53	48	44	51	46	43	49	45	42	41			41
10	63	53	46	42	62	52	46	42	50	45	41	48	44	40	47	43	40	38			38

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	46627	46627	46627	46627
5°	46853	48219	46197	48851
10°	47244	50627	46111	50291
15°	47476	45893	46031	44045
20°	46985	34188	45448	31633
25°	44473	21622	43003	19619
30°	38851	12993	37346	11875
35°	29900	8153	28180	7222
40°	18914	5115	17305	4806
45°	9749	3984	9587	3919
50°	5715	3544	5540	3489
55°	4378	3353	4217	3323
60°	3705	3425	3548	3381
65°	3481	3577	3347	3455
70°	3400	3745	3230	3604
75°	3636	3972	3438	3796
80°	3762	4399	3410	4015
85°	3544	4242	2863	3634

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 25°
 Vertical Angle: 45°
 Luminance: 14919 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	978.5	7.4
10°-20°	2752.7	20.8
20°-30°	3135.1	23.7
30°-40°	2253.4	17.0
40°-50°	1039.2	7.9
50°-60°	497.3	3.8
60°-70°	362.9	2.7
70°-80°	275.7	2.1
80°-90°	128.4	1.0
90°-100°	49.5	0.4
100°-110°	304.2	2.3
110°-120°	562.3	4.3
120°-130°	339.0	2.6
130°-140°	211.3	1.6
140°-150°	151.5	1.1
150°-160°	102.2	0.8
160°-170°	60.0	0.5
170°-180°	20.2	0.2
0°-30°	6866.3	51.9
0°-40°	9119.6	69.0
0°-60°	10656.2	80.6
0°-90°	11423.2	86.4
90°-120°	916.1	6.9
90°-150°	1617.9	12.2
90°-180°	1800.0	13.6
0°-180°	13223.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	9929	9929	9929	9929	9929	
5°	10004	10296	9864	10430	10004	956
15°	9960	9628	9657	9240	9960	2806
25°	8881	4318	8588	3918	8881	4026
35°	5488	1496	5172	1326	5488	3368
45°	1577	645	1551	634	1577	1342
55°	592	453	570	449	592	546
65°	363	373	349	361	363	363
75°	256	280	242	267	256	266
85°	122	146	98	125	122	114
90°	40	49	17	19	40	24
95°	23	26	23	26	23	22
105°	108	140	71	141	108	143
115°	488	597	512	597	488	451
125°	360	385	409	385	360	328
135°	274	249	295	250	274	214
145°	235	234	251	235	235	149
155°	214	217	229	218	214	99
165°	208	209	216	210	208	59
175°	210	212	214	212	210	20
180°	212	212	212	212	212	



TEST NUMBER: P1444428
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CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
0°	9928.9	9928.9	9928.9	9928.9	9928.9	9928.9	9928.9	9928.9	9928.9	9928.9	9928.9
2.5°	9966.9	9966.1	9965.9	9965.3	9965.1	9965.1	9964.7	9963.9	9963.4	9962.3	9961.0
5°	10003.9	10003.4	10003.7	10003.8	10003.0	10001.5	9999.1	9996.1	9992.3	9988.8	9985.7
7.5°	10032.4	10033.2	10034.0	10033.8	10031.7	10028.0	10023.1	10020.3	10021.9	10027.4	10039.7
10°	10037.7	10042.0	10043.6	10043.1	10038.8	10035.6	10036.8	10047.3	10068.3	10096.2	10134.4
12.5°	10017.4	10022.6	10022.4	10020.6	10016.4	10020.7	10036.0	10067.3	10112.1	10167.2	10231.9
15°	9960.2	9967.0	9965.1	9962.8	9960.0	9974.0	10004.4	10058.8	10128.2	10205.8	10285.3
17.5°	9849.2	9857.5	9853.4	9850.9	9848.6	9874.8	9927.1	10006.8	10094.1	10181.9	10257.3
20°	9656.8	9662.2	9652.8	9648.4	9652.1	9703.6	9780.6	9882.4	9974.4	10057.4	10109.0
22.5°	9342.7	9349.6	9331.8	9329.7	9351.6	9430.7	9528.1	9641.8	9728.3	9794.2	9814.0
25°	8881.3	8888.0	8866.9	8879.4	8916.8	9024.5	9140.6	9262.2	9336.0	9384.8	9371.3
27.5°	8258.4	8264.6	8244.5	8270.3	8329.3	8470.8	8607.4	8739.3	8805.1	8839.3	8796.0
30°	7472.9	7485.6	7461.9	7497.9	7587.9	7771.7	7928.2	8076.1	8141.7	8167.7	8100.3
32.5°	6539.9	6558.0	6532.0	6585.4	6711.1	6931.7	7109.5	7274.9	7347.4	7377.1	7300.9
35°	5487.7	5513.6	5483.7	5564.0	5718.9	5964.7	6161.6	6346.1	6432.0	6474.1	6397.3
37.5°	4372.8	4397.6	4381.4	4488.4	4658.6	4913.3	5114.3	5313.4	5410.4	5473.6	5413.1
40°	3278.3	3301.0	3313.1	3435.7	3595.7	3835.8	4028.8	4225.8	4334.3	4413.6	4376.3
42.5°	2313.9	2336.6	2378.3	2496.5	2629.9	2828.7	2994.0	3170.9	3274.5	3359.1	3344.7
45°	1577.3	1603.7	1655.9	1752.7	1849.3	1991.8	2113.2	2250.8	2335.5	2413.0	2413.9
47.5°	1105.3	1123.9	1170.5	1236.5	1299.5	1478.0	1485.3	1553.0	1609.8	1667.8	1675.3
50°	851.8	863.0	887.7	924.6	960.2	1006.6	1049.0	1098.0	1133.0	1164.8	1172.4
52.5°	700.2	707.2	719.9	739.8	760.4	785.7	808.4	835.3	854.4	871.3	874.9
55°	591.7	597.6	616.4	620.2	643.8	648.4	658.5	674.8	686.0	696.1	698.7
57.5°	509.9	514.3	518.2	526.7	534.0	544.6	553.1	564.8	571.9	579.2	579.8
60°	445.4	448.5	451.3	457.2	462.2	469.6	475.5	483.4	488.4	493.9	494.6
62.5°	397.4	399.6	401.5	405.4	408.9	414.6	419.3	425.9	430.6	434.8	435.8
65°	363.3	364.8	366.1	369.0	372.1	376.9	381.1	386.6	390.0	393.3	394.0
67.5°	333.0	334.5	335.8	338.4	340.6	344.2	347.1	351.2	353.7	356.3	356.4
70°	298.3	299.7	300.7	303.2	304.9	308.0	310.3	314.0	316.6	319.5	320.3
72.5°	274.4	275.2	276.4	278.8	281.1	284.5	287.5	291.3	294.5	297.6	298.8
75°	256.1	257.0	257.9	259.8	261.5	264.3	266.6	270.1	272.9	276.1	277.7
77.5°	229.8	230.9	231.6	233.5	235.0	237.6	239.3	242.5	244.8	247.8	249.2
80°	197.9	199.0	199.5	201.3	202.4	205.0	206.5	209.6	211.5	214.4	216.2
82.5°	162.6	163.6	163.9	165.7	166.3	168.3	169.5	172.6	175.0	178.8	181.4
85°	121.8	122.1	122.7	122.2	124.8	124.9	127.7	128.2	131.9	132.8	137.0
87.5°	74.5	75.6	76.1	77.7	78.5	80.2	80.7	82.5	83.6	85.6	86.6
90°	40.0	42.3	43.5	46.0	47.1	49.6	50.6	53.1	54.2	56.9	58.8
92.5°	20.0	21.4	22.7	24.1	25.5	27.2	28.7	30.1	31.5	33.1	36.0
95°	22.8	24.4	25.9	27.5	29.1	30.8	32.4	34.0	35.6	37.2	41.9
97.5°	28.8	30.2	31.6	32.9	34.3	35.7	37.1	38.4	39.8	41.2	46.7
100°	37.7	38.9	40.0	41.2	42.3	43.6	44.7	45.9	47.0	48.2	58.5
102.5°	63.0	67.2	71.4	75.5	79.6	83.8	88.0	92.1	96.3	100.4	122.3
105°	107.7	119.0	130.4	141.5	152.9	164.2	175.5	186.7	198.0	209.4	244.9
107.5°	185.1	205.9	226.8	247.8	268.6	289.5	310.4	331.4	352.2	373.1	409.2
110°	343.4	360.2	377.0	393.8	410.7	427.4	444.3	461.0	477.8	494.7	521.0



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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°	463.4	471.0	478.7	486.2	493.9	501.5	509.1	516.7	524.4	532.0	550.9
115°	488.5	491.2	493.8	496.5	499.4	502.0	504.7	507.4	510.0	512.7	525.5
117.5°	473.5	473.0	472.7	472.3	471.7	471.4	470.9	470.4	469.9	469.5	476.8
120°	440.3	438.1	435.9	433.6	431.4	429.0	426.8	424.5	422.2	419.7	422.9
122.5°	398.8	396.1	393.4	390.7	388.0	385.2	382.5	379.6	376.8	374.1	375.4
125°	360.2	357.4	354.7	352.0	349.2	346.4	343.7	340.9	338.0	335.2	335.9
127.5°	326.4	324.6	322.8	320.7	318.9	316.9	314.9	312.9	311.0	308.9	309.2
130°	304.3	302.7	301.0	299.3	297.5	295.7	293.9	292.2	290.4	288.5	289.0
132.5°	286.1	285.0	283.8	282.6	281.4	280.0	278.9	277.5	276.1	274.9	275.4
135°	273.6	272.6	271.6	270.4	269.3	268.1	266.9	265.7	264.5	263.2	263.9
137.5°	262.9	262.0	261.1	260.0	259.0	257.9	256.8	255.7	254.6	253.5	254.0
140°	253.2	252.3	251.4	250.5	249.5	248.7	247.7	246.6	245.6	244.6	245.3
142.5°	242.2	241.6	241.0	240.2	239.6	238.8	238.0	237.2	236.4	235.6	236.6
145°	235.0	234.6	234.0	233.4	232.8	232.1	231.5	230.8	230.1	229.5	230.5
147.5°	228.7	228.3	227.9	227.3	227.0	226.4	225.9	225.3	224.8	224.2	225.3
150°	223.0	222.7	222.4	221.8	221.3	220.9	220.4	219.8	219.4	218.8	219.9
152.5°	217.3	216.9	216.6	216.1	215.7	215.2	214.8	214.2	213.7	213.2	214.1
155°	213.6	213.2	212.8	212.4	212.0	211.5	211.0	210.6	210.1	209.6	210.4
157.5°	210.9	210.7	210.5	210.1	209.8	209.4	209.1	208.7	208.4	208.1	208.6
160°	209.5	209.3	209.0	208.6	208.2	207.9	207.7	207.2	206.9	206.6	207.1
162.5°	208.0	207.8	207.5	207.2	206.9	206.5	206.2	205.9	205.6	205.2	205.8
165°	207.5	207.3	207.1	206.9	206.7	206.5	206.4	206.2	206.0	205.8	206.2
167.5°	208.8	208.5	208.3	208.0	207.8	207.5	207.2	206.9	206.7	206.4	206.8
170°	209.0	208.8	208.7	208.6	208.4	208.3	208.2	208.0	207.9	207.8	208.1
172.5°	209.8	209.6	209.5	209.5	209.4	209.3	209.2	209.1	209.0	208.9	209.3
175°	209.5	209.4	209.4	209.3	209.2	209.2	209.1	209.0	209.0	208.9	209.1
177.5°	210.9	210.8	210.8	210.8	210.8	210.8	210.7	210.6	210.6	210.6	210.8
180°	212.1	212.1	212.1	212.1	212.1	212.1	212.1	212.1	212.1	212.1	212.1



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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°	9928.9	9928.9	9928.9	9928.9	9928.9	9928.9	9928.9	9928.9	9928.9	9928.9	9928.9
2.5°	9960.0	9958.8	9957.1	9955.1	9953.3	9951.1	9946.2	9944.7	9946.3	9947.5	9949.7
5°	9983.6	9984.4	9984.7	9989.2	9993.1	10002.8	10079.2	10109.5	10133.0	10147.9	10170.6
7.5°	10055.0	10078.0	10100.7	10131.3	10157.6	10193.2	10326.8	10383.7	10424.2	10453.2	10489.0
10°	10175.9	10226.1	10273.1	10328.1	10375.5	10429.6	10554.0	10609.4	10644.5	10670.0	10693.7
12.5°	10297.7	10367.2	10430.1	10491.3	10542.6	10589.6	10633.3	10652.7	10654.3	10655.2	10642.5
15°	10361.2	10427.6	10483.0	10523.5	10553.6	10566.9	10491.6	10452.1	10402.2	10361.0	10293.3
17.5°	10321.1	10361.0	10384.9	10382.6	10370.1	10328.4	10115.1	9997.8	9881.2	9776.2	9638.6
20°	10143.2	10140.1	10119.3	10060.3	9989.4	9879.0	9513.2	9302.2	9098.2	8919.0	8701.6
22.5°	9812.0	9759.9	9687.3	9560.2	9419.1	9226.3	8702.1	8391.6	8107.6	7856.6	7575.5
25°	9332.2	9225.0	9091.0	8889.4	8670.1	8388.8	7742.7	7356.6	7015.6	6719.8	6395.5
27.5°	8718.1	8556.6	8360.3	8081.2	7784.1	7423.8	6707.5	6281.4	5915.2	5598.1	5253.0
30°	7991.2	7781.1	7527.7	7181.2	6822.8	6414.1	5687.7	5256.1	4885.5	4559.2	4213.8
32.5°	7169.7	6923.7	6626.6	6237.7	5850.2	5430.0	4728.4	4310.6	3956.7	3642.8	3330.1
35°	6263.5	5999.7	5685.4	5288.8	4903.6	4495.1	3851.3	3474.6	3162.0	2884.6	2632.2
37.5°	5291.6	5032.6	4733.8	4360.0	4002.8	3632.6	3077.1	2761.4	2499.1	2268.9	2074.0
40°	4280.9	4054.4	3795.8	3472.7	3167.9	2859.5	2403.5	2152.9	1945.9	1770.4	1624.3
42.5°	3282.7	3107.1	2908.9	2653.5	2420.3	2185.4	1834.5	1648.9	1495.5	1369.1	1265.9
45°	2381.8	2264.2	2131.3	1953.8	1792.4	1628.6	1378.8	1248.4	1148.5	1067.0	998.1
47.5°	1665.0	1596.8	1592.7	1428.6	1310.3	1210.1	1049.2	966.8	905.6	856.2	812.6
50°	1169.3	1136.3	1095.3	1036.7	981.9	925.3	827.2	777.4	741.6	711.6	684.1
52.5°	874.1	857.0	835.2	804.1	774.4	742.5	680.4	648.8	637.5	609.6	587.8
55°	698.1	688.4	675.9	657.7	639.6	632.4	579.2	555.7	540.7	529.7	518.0
57.5°	579.9	572.6	565.2	552.8	542.4	529.7	501.5	489.4	480.5	474.1	465.9
60°	494.7	490.3	486.2	478.9	473.2	466.4	448.5	441.7	437.1	433.1	428.0
62.5°	436.6	434.4	432.2	428.4	425.5	421.8	409.5	406.3	403.9	401.9	398.9
65°	394.7	393.0	391.9	389.3	387.9	385.7	375.2	373.0	371.6	370.8	369.0
67.5°	356.6	354.9	354.2	352.3	351.7	350.3	341.7	340.5	340.0	340.3	339.7
70°	321.0	320.3	320.6	320.4	321.2	321.4	316.2	316.1	316.7	317.8	317.9
72.5°	299.7	299.7	300.0	300.2	301.0	301.3	297.0	296.8	297.0	297.9	297.9
75°	279.3	279.7	280.7	281.1	282.0	282.2	276.5	275.9	275.9	276.6	276.4
77.5°	251.2	252.4	254.5	255.6	257.4	257.7	251.3	250.5	250.6	251.3	250.7
80°	219.3	221.6	225.0	227.3	230.1	231.1	224.5	222.9	221.4	221.3	219.9
82.5°	185.5	188.3	192.3	194.4	197.3	197.9	186.9	184.7	183.5	183.6	182.4
85°	141.5	143.7	147.3	148.6	150.3	150.2	137.5	132.1	133.6	131.3	133.1
87.5°	88.8	90.0	92.4	92.6	93.5	93.3	80.6	78.0	77.3	77.4	76.4
90°	62.1	64.2	67.3	68.8	71.3	72.3	63.2	63.2	61.3	60.7	58.5
92.5°	38.8	41.6	44.4	47.3	50.1	53.0	54.6	57.1	54.2	51.1	48.3
95°	46.6	51.2	55.9	60.7	65.4	70.1	74.7	79.4	75.0	70.6	66.2
97.5°	52.3	57.9	63.4	68.9	74.5	80.1	85.6	91.1	86.5	81.7	77.0
100°	68.9	79.2	89.5	99.9	110.3	120.6	131.0	141.3	132.2	123.0	114.0
102.5°	144.3	166.3	188.3	210.1	232.1	254.1	276.0	298.1	277.3	256.4	235.6
105°	280.6	316.1	351.7	387.3	422.8	458.4	494.2	529.7	496.5	463.0	429.8
107.5°	445.3	481.4	517.4	553.5	589.7	625.7	662.0	698.1	665.6	633.1	600.7
110°	547.4	573.7	600.1	626.5	652.9	679.2	705.9	732.2	712.7	693.3	673.7



TEST NUMBER: P1444428
 CATALOG NUMBER: EHBR1-12-UNV-TA-L830-UPL18

CANDELA DISTRIBUTION (continued):

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
112.5°	569.6	588.6	607.5	626.3	645.1	664.0	683.2	702.2	692.5	682.7	673.0
115°	538.3	551.1	563.8	576.5	589.4	602.0	615.1	628.1	625.0	621.9	619.0
117.5°	483.9	491.1	498.3	505.5	512.6	519.8	527.5	534.8	535.4	536.1	536.7
120°	426.1	429.2	432.3	435.5	438.5	441.6	445.3	448.5	451.3	454.0	456.8
122.5°	376.7	378.0	379.2	380.4	381.6	382.8	384.8	386.3	388.2	390.2	392.2
125°	336.6	337.3	338.1	338.7	339.3	340.1	341.6	342.4	342.7	342.9	343.2
127.5°	309.4	309.8	310.0	310.2	310.4	310.7	311.7	312.2	311.3	310.3	309.4
130°	289.4	289.8	290.3	290.8	291.2	291.6	293.0	293.7	291.9	290.0	288.2
132.5°	276.0	276.5	277.0	277.6	278.1	278.7	280.2	280.9	279.0	276.7	274.6
135°	264.4	265.2	265.7	266.4	267.0	267.8	269.5	270.3	268.4	266.3	264.2
137.5°	254.6	255.3	256.0	256.7	257.2	258.0	259.8	260.8	259.2	257.6	256.0
140°	246.1	246.8	247.6	248.4	249.2	250.0	252.1	253.1	252.0	250.6	249.4
142.5°	237.5	238.5	239.5	240.5	241.6	242.6	244.9	246.3	245.4	244.5	243.7
145°	231.6	232.8	233.9	235.0	236.1	237.4	240.0	241.5	241.0	240.5	239.9
147.5°	226.2	227.2	228.3	229.3	230.4	231.6	234.2	235.7	235.4	235.1	234.7
150°	220.8	221.9	222.9	224.0	225.2	226.3	229.2	230.8	230.5	230.3	230.1
152.5°	215.1	216.0	216.9	218.0	218.9	220.0	223.3	224.9	224.6	224.3	224.2
155°	211.0	211.9	212.6	213.4	214.1	215.1	218.4	219.8	219.8	219.7	219.5
157.5°	209.2	209.7	210.2	210.9	211.4	212.1	215.4	216.8	216.7	216.5	216.4
160°	207.5	207.9	208.4	208.8	209.3	209.8	213.3	214.5	214.4	214.2	214.1
162.5°	206.4	207.0	207.5	207.9	208.6	209.2	212.7	214.0	213.9	213.7	213.5
165°	206.5	206.8	207.2	207.7	208.0	208.4	211.6	212.7	212.6	212.5	212.4
167.5°	207.1	207.6	207.9	208.2	208.7	209.2	212.1	213.2	213.1	213.0	212.9
170°	208.3	208.7	209.0	209.4	209.6	210.1	212.5	213.4	213.3	213.1	212.9
172.5°	209.5	210.0	210.3	210.7	210.9	211.4	213.5	214.4	214.2	214.1	213.9
175°	209.4	209.6	210.0	210.3	210.6	210.9	212.6	213.2	213.1	213.1	213.0
177.5°	211.0	211.1	211.3	211.6	211.8	212.0	213.1	213.5	213.5	213.5	213.4
180°	212.1	212.1	212.1	212.1	212.1	212.1	212.1	212.1	212.1	212.1	212.1



TEST NUMBER: P1444428
 CATALOG NUMBER: EHBR1-12-UNV-TA-L830-UPL18

CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
0°	9928.9	9928.9	9928.9	9928.9	9928.9	9928.9	9928.9	9928.9	9928.9	9928.9	9928.9
2.5°	9950.3	9953.7	9954.3	9958.3	9958.1	9962.8	9962.1	9966.1	9963.8	9967.1	9964.2
5°	10184.0	10205.2	10216.2	10236.9	10243.5	10261.9	10267.2	10284.1	10284.8	10298.2	10295.1
7.5°	10514.4	10545.7	10564.2	10589.8	10602.7	10624.0	10633.3	10649.2	10654.2	10666.7	10667.7
10°	10711.6	10726.8	10737.4	10744.6	10751.1	10754.2	10757.7	10756.8	10757.7	10756.3	10759.4
12.5°	10634.1	10611.9	10597.3	10569.5	10553.4	10522.8	10507.7	10478.3	10467.5	10442.2	10438.6
15°	10241.0	10163.9	10109.3	10030.0	9980.1	9902.0	9856.4	9786.0	9753.9	9697.8	9683.1
17.5°	9524.6	9381.3	9270.4	9128.2	9029.5	8896.5	8812.9	8702.9	8642.5	8553.8	8523.1
20°	8520.3	8308.3	8142.0	7943.8	7801.9	7625.3	7512.1	7369.5	7286.7	7177.6	7133.4
22.5°	7341.2	7077.2	6869.4	6635.4	6464.2	6267.3	6131.8	5977.4	5887.3	5768.9	5716.5
25°	6125.9	5834.8	5603.8	5357.1	5176.3	4979.0	4843.4	4691.8	4598.5	4486.1	4434.0
27.5°	4963.5	4668.8	4445.6	4216.3	4050.5	3872.4	3750.1	3617.7	3535.0	3438.9	3389.9
30°	3937.8	3677.9	3487.9	3297.7	3159.7	3015.1	2913.4	2803.7	2731.1	2648.9	2602.2
32.5°	3102.1	2901.5	2752.7	2601.7	2488.8	2367.9	2280.1	2183.3	2117.7	2044.4	2002.1
35°	2456.9	2300.9	2182.3	2057.9	1961.0	1858.1	1780.7	1697.0	1638.3	1575.1	1538.6
37.5°	1941.1	1817.2	1719.6	1616.3	1536.7	1451.3	1422.6	1326.8	1265.8	1215.4	1180.4
40°	1523.5	1424.8	1344.1	1265.1	1200.1	1135.5	1083.5	1032.3	992.9	956.8	931.9
42.5°	1189.7	1118.2	1059.2	1001.4	954.0	906.9	869.3	834.0	807.5	783.9	767.8
45°	945.7	896.6	855.6	814.8	781.4	750.0	724.6	702.2	685.0	670.9	660.8
47.5°	776.9	743.3	714.4	686.9	664.2	643.6	626.7	621.1	602.7	590.3	585.6
50°	660.3	640.0	618.0	597.7	582.5	567.5	556.5	545.7	538.8	533.1	531.4
52.5°	573.3	557.7	545.4	532.6	522.7	511.9	504.3	497.1	493.4	490.4	490.0
55°	508.5	497.7	489.5	480.9	474.9	468.6	464.7	461.0	459.3	457.8	457.9
57.5°	459.5	452.2	447.0	441.5	438.2	435.2	434.2	433.2	433.7	434.0	434.8
60°	423.9	419.1	415.8	412.6	411.2	410.3	411.0	411.9	413.7	415.0	416.3
62.5°	396.5	393.8	392.2	390.4	390.3	390.4	391.8	393.3	395.5	397.1	398.3
65°	368.3	366.8	366.3	365.2	365.7	366.1	367.8	369.0	371.1	372.4	373.9
67.5°	339.9	339.6	339.8	339.8	340.9	341.7	343.4	344.6	346.5	347.7	348.9
70°	318.9	319.0	319.8	320.0	321.0	321.6	323.1	323.9	325.5	326.5	328.0
72.5°	298.4	298.2	298.3	297.9	298.2	298.1	298.9	299.3	300.7	301.4	303.3
75°	276.7	275.8	275.6	274.5	274.6	273.9	274.3	274.2	275.1	275.5	276.8
77.5°	250.5	248.9	248.1	246.5	246.4	245.9	246.5	246.9	248.5	249.4	250.9
80°	219.0	216.6	215.4	213.6	213.9	213.8	215.4	216.7	218.6	219.0	220.9
82.5°	182.0	179.6	178.3	176.5	176.9	177.0	178.4	178.7	180.4	181.2	183.4
85°	130.3	131.3	128.7	128.9	128.3	129.4	130.3	131.6	133.0	135.4	137.2
87.5°	76.7	76.4	77.4	77.5	78.8	79.5	81.6	82.8	85.2	87.1	90.5
90°	57.3	55.1	54.7	53.2	53.4	52.0	52.4	50.9	51.4	50.7	51.7
92.5°	45.1	42.3	39.2	36.3	33.3	30.4	28.9	27.5	26.1	24.9	23.3
95°	61.8	57.5	53.1	48.7	44.4	40.0	38.4	36.8	35.2	33.6	31.9
97.5°	72.3	67.5	62.9	58.1	53.4	48.7	47.7	46.6	45.5	44.5	43.4
100°	104.9	95.8	86.7	77.7	68.6	59.5	58.6	57.8	57.0	56.1	55.2
102.5°	214.8	193.8	173.0	152.2	131.4	110.5	106.9	103.3	99.7	96.0	92.5
105°	396.4	363.1	329.8	296.5	263.1	229.9	219.9	209.9	200.0	190.1	180.2
107.5°	568.2	535.6	503.2	470.7	438.3	405.8	390.1	374.4	358.7	342.9	327.3
110°	654.2	634.7	615.3	595.7	576.3	556.9	541.9	526.9	511.9	496.9	482.0



TEST NUMBER: P1444428
 CATALOG NUMBER: EHBR1-12-UNV-TA-L830-UPL18

CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
112.5°	663.2	653.5	643.8	634.2	624.4	614.8	607.5	600.1	592.9	585.5	578.2
115°	615.9	612.8	609.7	606.8	603.8	600.7	600.2	599.8	599.2	598.8	598.3
117.5°	537.3	538.0	538.7	539.5	540.1	540.8	544.7	548.7	552.7	556.6	560.7
120°	459.5	462.2	465.0	467.8	470.5	473.3	478.6	483.9	489.2	494.6	500.0
122.5°	394.2	396.0	398.0	400.1	402.0	404.0	409.2	414.6	419.8	425.1	430.6
125°	343.4	343.7	344.0	344.1	344.3	344.6	349.0	353.3	357.7	362.2	366.5
127.5°	308.5	307.4	306.4	305.6	304.5	303.6	306.2	308.8	311.5	314.2	316.8
130°	286.4	284.7	282.7	280.9	279.0	277.3	278.4	279.5	280.5	281.8	282.9
132.5°	272.5	270.2	268.1	265.9	263.7	261.6	261.7	261.8	262.0	262.1	262.4
135°	262.2	260.2	258.2	256.0	253.9	252.0	251.5	251.1	250.8	250.4	249.9
137.5°	254.4	252.8	251.1	249.5	247.9	246.4	245.7	245.0	244.4	243.8	243.3
140°	248.1	246.8	245.5	244.3	242.9	241.8	241.2	240.7	240.1	239.7	239.2
142.5°	242.7	241.8	240.8	240.0	239.0	238.1	237.6	237.1	236.6	236.2	235.7
145°	239.3	238.8	238.1	237.6	237.0	236.5	236.1	235.8	235.4	235.1	234.7
147.5°	234.5	234.1	233.8	233.4	233.1	232.8	232.5	232.3	232.0	231.9	231.6
150°	229.7	229.3	229.0	228.7	228.5	228.2	228.0	227.9	227.8	227.8	227.7
152.5°	223.9	223.5	223.2	223.0	222.7	222.4	222.3	222.3	222.2	222.1	222.1
155°	219.3	219.2	219.0	218.8	218.6	218.4	218.3	218.2	218.0	217.8	217.6
157.5°	216.3	216.1	215.9	215.8	215.6	215.4	215.3	215.2	215.0	214.9	214.7
160°	213.9	213.9	213.7	213.6	213.4	213.3	213.0	212.7	212.5	212.3	211.9
162.5°	213.2	212.8	212.6	212.4	212.2	212.0	211.8	211.6	211.4	211.3	211.1
165°	212.3	212.2	212.0	211.8	211.7	211.6	211.3	211.0	210.8	210.5	210.2
167.5°	212.7	212.6	212.4	212.4	212.2	212.1	211.9	211.6	211.3	211.1	210.8
170°	212.7	212.4	212.3	212.0	211.8	211.5	211.3	211.1	210.9	210.7	210.3
172.5°	213.8	213.5	213.3	213.1	212.9	212.7	212.5	212.4	212.2	212.0	211.7
175°	212.9	212.9	212.9	212.7	212.7	212.6	212.5	212.5	212.4	212.4	212.4
177.5°	213.4	213.4	213.4	213.3	213.3	213.3	213.1	213.0	212.8	212.6	212.5
180°	212.1	212.1	212.1	212.1	212.1	212.1	212.1	212.1	212.1	212.1	212.1



TEST NUMBER: P1444428
 CATALOG NUMBER: EHBR1-12-UNV-TA-L830-UPL18

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	92.5°	95°	97.5°	100°	102.5°	105°	107.5°
0°	9928.9	9928.9	9928.9	9928.9	9928.9	9928.9	9928.9	9928.9	9928.9	9928.9	9928.9
2.5°	9967.1	9964.6	9965.8	9961.1	9962.3	9956.7	9956.1	9949.7	9949.2	9943.2	9940.9
5°	10304.6	10299.0	10305.3	10295.6	10297.5	10284.8	10283.8	10267.3	10261.6	10241.1	10232.2
7.5°	10675.5	10673.4	10677.3	10669.1	10668.8	10657.5	10652.8	10638.1	10628.9	10607.4	10593.6
10°	10756.8	10758.7	10755.6	10756.3	10751.9	10750.7	10746.2	10743.3	10735.9	10730.3	10722.0
12.5°	10419.4	10421.4	10408.5	10416.7	10410.2	10425.3	10424.1	10441.8	10444.5	10467.0	10475.5
15°	9639.6	9637.1	9612.4	9628.1	9619.6	9652.7	9660.1	9704.6	9728.3	9785.4	9820.5
17.5°	8461.6	8455.2	8420.5	8439.4	8429.7	8478.5	8494.8	8565.9	8610.2	8702.2	8767.8
20°	7057.4	7045.2	7004.5	7026.7	7016.8	7072.2	7095.5	7181.4	7238.5	7360.4	7447.0
22.5°	5635.7	5616.5	5576.6	5597.4	5587.9	5645.3	5675.7	5761.9	5827.4	5952.4	6053.6
25°	4359.1	4341.9	4303.4	4317.9	4314.5	4362.9	4390.0	4471.5	4535.8	4655.0	4751.5
27.5°	3324.8	3307.0	3272.1	3282.4	3278.9	3320.2	3345.6	3413.7	3469.2	3569.4	3654.2
30°	2544.7	2523.1	2493.6	2499.2	2496.9	2530.3	2554.1	2611.5	2658.9	2743.7	2816.8
32.5°	1950.5	1928.9	1901.7	1904.3	1900.8	1927.1	1946.7	1996.5	2037.9	2109.9	2173.5
35°	1492.4	1517.7	1459.8	1496.4	1458.3	1514.3	1494.1	1525.3	1560.9	1621.6	1674.6
37.5°	1147.3	1129.7	1114.8	1113.2	1113.1	1126.1	1141.5	1171.4	1202.8	1248.1	1294.8
40°	909.2	896.8	887.2	886.5	887.2	896.4	907.8	928.5	951.4	983.9	1018.3
42.5°	754.1	745.9	740.0	739.6	741.5	748.1	755.9	768.2	783.2	804.3	827.8
45°	652.6	648.1	644.8	644.6	645.5	649.0	653.4	661.1	670.6	683.7	698.7
47.5°	581.5	580.4	578.3	578.4	577.5	578.9	579.4	583.8	588.7	598.7	618.1
50°	529.7	529.7	528.3	528.2	526.9	526.8	525.7	527.4	529.7	535.9	542.1
52.5°	488.7	488.6	487.1	486.8	485.4	485.3	484.4	485.0	485.3	488.4	492.1
55°	456.7	455.7	453.7	453.1	452.6	453.4	453.0	453.1	452.6	453.9	455.1
57.5°	433.7	432.5	430.6	430.0	429.9	430.9	430.9	430.6	428.8	427.7	426.0
60°	415.5	414.3	412.2	411.8	412.1	413.4	413.3	412.2	409.6	407.4	404.8
62.5°	397.7	397.2	396.1	396.0	395.8	395.9	395.1	393.9	391.4	388.9	386.1
65°	373.7	374.0	373.3	373.4	372.4	372.2	370.8	369.7	367.2	365.0	362.1
67.5°	348.9	349.1	348.5	348.5	348.0	348.1	347.1	346.1	344.0	342.2	339.9
70°	328.4	328.9	328.5	328.6	328.0	327.8	326.5	325.5	323.3	321.8	319.7
72.5°	303.9	304.9	304.9	305.2	304.2	303.9	302.3	301.0	298.9	297.8	296.2
75°	277.4	278.8	279.1	279.8	278.6	277.9	276.1	275.1	273.5	272.8	271.7
77.5°	251.5	253.1	254.6	256.0	253.9	252.2	250.0	248.3	246.0	245.0	243.4
80°	222.5	225.3	228.6	231.4	227.7	224.1	220.5	217.9	214.7	213.4	211.3
82.5°	184.5	187.4	189.3	191.1	188.6	185.9	182.5	180.1	176.8	175.4	173.1
85°	140.2	143.8	144.9	145.8	144.3	142.8	139.6	135.2	133.1	129.7	128.0
87.5°	92.2	94.3	94.8	95.1	94.0	93.4	91.3	89.3	85.6	82.9	79.7
90°	50.6	51.1	49.2	48.8	48.4	49.5	48.3	48.5	46.4	46.2	44.4
92.5°	22.0	20.6	19.2	17.8	19.4	20.6	22.1	23.3	24.8	26.1	27.5
95°	30.3	28.8	27.2	25.6	26.9	28.1	29.4	30.7	31.9	33.3	34.6
97.5°	42.3	41.3	40.2	39.2	39.9	40.7	41.4	42.2	42.8	43.6	44.4
100°	54.3	53.5	52.6	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8
102.5°	88.8	85.1	81.6	77.9	80.4	82.8	85.2	87.7	90.2	92.6	95.2
105°	170.3	160.4	150.4	140.5	150.1	159.7	169.3	178.9	188.5	198.2	207.8
107.5°	311.5	295.9	280.2	264.5	282.0	299.6	317.0	334.5	352.0	369.5	387.0
110°	467.0	452.1	437.2	422.3	440.8	459.4	477.9	496.5	515.1	533.6	552.3



TEST NUMBER: P1444428
 CATALOG NUMBER: EHBR1-12-UNV-TA-L830-UPL18

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	92.5°	95°	97.5°	100°	102.5°	105°	107.5°
112.5°	570.9	563.7	556.4	549.2	561.2	573.1	585.1	597.1	609.0	621.0	633.0
115°	597.9	597.4	597.1	596.6	602.2	607.9	613.5	619.2	625.0	630.6	636.3
117.5°	564.6	568.7	572.8	576.8	578.6	580.5	582.3	584.0	586.0	587.8	589.7
120°	505.4	510.7	516.1	521.6	520.8	520.1	519.3	518.6	518.1	517.3	516.8
122.5°	435.9	441.3	446.7	452.1	450.6	449.0	447.4	445.8	444.3	442.7	441.3
125°	371.1	375.6	380.1	384.7	383.1	381.5	379.9	378.4	376.9	375.4	374.0
127.5°	319.6	322.5	325.2	328.0	327.3	326.5	325.9	325.2	324.7	324.0	323.4
130°	284.2	285.4	286.7	288.0	288.2	288.4	288.8	289.1	289.4	289.7	290.2
132.5°	262.7	262.9	263.2	263.6	264.4	265.3	266.2	267.1	268.3	269.2	270.3
135°	249.7	249.4	249.3	249.1	250.4	251.6	252.9	254.3	255.7	257.2	258.8
137.5°	242.7	242.2	241.8	241.4	242.7	243.9	245.3	246.6	248.0	249.5	251.1
140°	238.9	238.4	238.2	237.8	239.1	240.4	241.7	243.1	244.5	246.0	247.5
142.5°	235.3	234.9	234.6	234.3	235.5	236.6	237.9	239.0	240.5	241.7	243.1
145°	234.5	234.2	234.0	233.8	234.6	235.4	236.3	237.3	238.3	239.2	240.3
147.5°	231.6	231.4	231.3	231.2	231.8	232.5	233.1	233.8	234.5	235.2	236.1
150°	227.8	227.7	227.6	227.7	228.1	228.5	228.9	229.3	229.9	230.2	230.9
152.5°	222.1	222.0	222.1	222.1	222.5	222.8	223.3	223.6	224.2	224.5	225.1
155°	217.6	217.4	217.3	217.2	217.3	217.6	217.8	217.9	218.2	218.3	218.5
157.5°	214.6	214.4	214.4	214.2	214.2	214.2	214.3	214.3	214.5	214.5	214.6
160°	211.8	211.5	211.2	211.0	211.1	211.2	211.5	211.5	211.7	211.8	212.0
162.5°	211.0	210.9	210.8	210.6	210.6	210.4	210.3	210.2	210.1	210.0	210.0
165°	210.0	209.6	209.4	209.2	209.2	209.2	209.3	209.3	209.3	209.3	209.4
167.5°	210.6	210.3	210.1	209.8	209.7	209.4	209.4	209.1	208.9	208.7	208.6
170°	210.1	209.9	209.7	209.5	209.4	209.4	209.4	209.2	209.2	209.2	209.2
172.5°	211.5	211.3	211.1	210.9	210.9	210.9	210.8	210.8	210.7	210.7	210.7
175°	212.3	212.3	212.2	212.1	212.0	211.9	211.7	211.6	211.5	211.3	211.1
177.5°	212.4	212.2	212.1	212.0	212.0	212.0	212.0	212.0	212.0	211.9	211.9
180°	212.1	212.1	212.1	212.1	212.1	212.1	212.1	212.1	212.1	212.1	212.1



TEST NUMBER: P1444428
 CATALOG NUMBER: EHBR1-12-UNV-TA-L830-UPL18

CANDELA DISTRIBUTION (continued):

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°
0°	9928.9	9928.9	9928.9	9928.9	9928.9	9928.9	9928.9	9928.9	9928.9	9928.9	9928.9
2.5°	9934.5	9931.8	9924.9	9921.5	9915.2	9912.0	9907.0	9903.8	9899.8	9896.8	9895.3
5°	10209.7	10197.0	10171.5	10155.9	10128.4	10110.3	10082.9	10063.0	10034.8	10014.0	9987.3
7.5°	10567.8	10548.3	10515.7	10491.0	10452.5	10423.1	10380.0	10345.4	10297.7	10258.2	10209.5
10°	10713.6	10702.2	10687.6	10671.6	10650.4	10629.5	10600.0	10570.0	10529.9	10490.1	10438.1
12.5°	10498.1	10508.8	10529.9	10539.8	10556.0	10561.4	10568.8	10565.3	10558.9	10542.6	10519.0
15°	9887.8	9932.5	10003.2	10052.0	10120.5	10168.6	10232.2	10273.2	10320.4	10348.6	10375.4
17.5°	8883.9	8970.4	9095.1	9194.5	9328.0	9436.6	9569.6	9674.1	9794.8	9887.3	9985.9
20°	7598.0	7719.1	7891.2	8037.4	8230.9	8395.0	8605.2	8781.3	8986.6	9157.8	9342.6
22.5°	6214.1	6356.5	6553.8	6730.1	6961.1	7167.4	7430.8	7663.7	7941.3	8190.1	8465.2
25°	4908.5	5048.1	5249.0	5431.5	5681.0	5908.3	6196.0	6463.1	6785.3	7085.8	7430.8
27.5°	3788.9	3912.9	4089.5	4253.8	4482.2	4705.5	4997.4	5282.2	5626.1	5949.0	6320.8
30°	2926.1	3026.7	3168.2	3300.4	3483.8	3666.3	3926.4	4189.8	4531.9	4866.6	5247.7
32.5°	2267.7	2353.4	2471.5	2578.9	2720.1	2857.8	3049.3	3259.7	3559.9	3880.4	4249.0
35°	1755.4	1828.7	1929.3	2021.8	2137.9	2247.2	2390.1	2540.4	2769.4	3039.1	3368.9
37.5°	1399.5	1429.4	1501.2	1576.9	1673.4	1763.2	1875.0	1986.1	2149.9	2362.7	2632.2
40°	1064.3	1111.8	1170.2	1229.9	1303.0	1375.0	1497.6	1556.6	1664.5	1817.3	2026.4
42.5°	858.8	892.1	933.2	974.7	1025.7	1075.8	1137.8	1201.0	1281.7	1385.1	1533.9
45°	718.6	740.4	766.9	794.5	828.0	862.2	903.7	947.1	1001.8	1065.4	1155.7
47.5°	625.0	637.1	654.4	673.2	696.2	719.9	746.8	774.5	808.5	846.1	897.6
50°	551.9	561.9	575.4	588.1	603.9	628.2	638.8	654.1	674.5	696.7	725.5
52.5°	499.1	505.7	514.2	521.5	531.4	540.5	552.5	563.0	577.1	590.4	609.0
55°	457.9	460.3	465.1	469.8	476.7	482.9	491.0	498.0	506.9	514.9	526.6
57.5°	426.1	426.3	428.5	431.0	435.4	439.3	444.9	449.4	455.7	460.8	467.8
60°	403.3	402.0	402.5	403.3	405.8	408.3	412.0	414.9	418.8	421.7	425.6
62.5°	384.2	382.3	381.9	381.6	382.9	383.8	385.7	387.1	389.4	390.7	392.8
65°	360.2	357.9	357.1	356.0	356.4	356.1	356.8	356.9	358.0	358.3	359.5
67.5°	338.4	336.6	335.3	333.9	333.4	332.3	331.9	330.9	330.8	330.0	329.8
70°	318.5	316.7	315.8	314.5	313.8	312.5	311.6	310.1	309.0	307.5	306.7
72.5°	295.5	294.5	294.2	293.3	293.1	292.3	292.1	290.8	290.2	289.0	288.2
75°	271.5	270.6	270.6	269.7	269.6	268.7	268.6	267.3	266.7	265.4	264.8
77.5°	242.9	241.6	241.2	240.2	240.5	240.1	240.4	239.5	239.0	237.8	237.4
80°	210.7	209.0	208.3	207.0	207.4	206.7	207.4	207.3	207.8	206.7	206.5
82.5°	172.4	170.7	170.3	169.4	170.0	170.1	171.4	170.7	171.0	170.0	170.5
85°	125.5	124.1	122.3	122.1	120.8	122.1	120.6	121.6	119.8	121.0	119.4
87.5°	77.7	75.0	73.6	71.7	70.9	69.0	68.3	67.0	67.3	66.7	67.1
90°	44.7	43.2	44.2	43.7	45.1	44.9	46.6	46.8	48.8	49.0	51.0
92.5°	28.9	30.3	32.8	35.5	37.9	40.5	43.1	45.7	48.1	50.9	53.3
95°	35.8	37.1	40.5	43.9	47.3	50.8	54.2	57.7	61.1	64.5	67.9
97.5°	45.1	45.9	49.3	52.7	56.1	59.6	62.9	66.5	69.9	73.3	76.7
100°	51.8	51.9	61.6	71.3	81.0	90.8	100.4	110.2	120.0	129.6	139.4
102.5°	97.6	100.0	124.6	149.1	173.7	198.2	222.8	247.4	271.9	296.6	321.1
105°	217.4	227.0	264.4	302.0	339.4	376.8	414.3	451.9	489.2	526.8	564.3
107.5°	404.6	422.1	456.0	489.8	523.6	557.5	591.4	625.3	659.2	693.0	727.0
110°	570.8	589.4	612.0	634.7	657.4	680.1	702.7	725.5	748.1	770.9	793.7



TEST NUMBER: P1444428
 CATALOG NUMBER: EHBR1-12-UNV-TA-L830-UPL18

CANDELA DISTRIBUTION (continued):

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°
112.5°	644.9	657.0	670.1	683.3	696.5	709.7	723.0	736.2	749.5	762.7	776.0
115°	642.0	647.7	652.8	657.9	663.1	668.2	673.4	678.6	683.8	688.9	694.1
117.5°	591.6	593.5	594.2	595.1	595.8	596.7	597.4	598.3	599.1	600.1	600.8
120°	516.0	515.4	514.5	513.6	512.8	511.8	511.0	510.1	509.3	508.4	507.7
122.5°	439.8	438.4	437.4	436.6	435.8	435.0	434.2	433.4	432.7	431.8	431.1
125°	372.6	371.2	371.9	372.5	373.3	373.9	374.7	375.4	376.2	376.8	377.7
127.5°	322.9	322.4	324.2	326.2	328.0	329.9	331.9	333.8	335.7	337.7	339.6
130°	290.7	291.0	293.5	296.0	298.3	300.9	303.4	305.9	308.3	310.8	313.3
132.5°	271.4	272.6	274.8	277.2	279.6	282.0	284.4	286.8	289.2	291.6	293.9
135°	260.2	261.8	264.0	266.1	268.3	270.4	272.7	274.8	276.9	279.2	281.3
137.5°	252.5	254.1	255.9	257.6	259.3	261.2	262.7	264.5	266.2	268.0	269.7
140°	248.9	250.6	251.4	252.4	253.3	254.3	255.3	256.3	257.0	258.1	259.0
142.5°	244.4	245.9	246.4	247.1	247.6	248.3	248.9	249.5	250.0	250.7	251.2
145°	241.2	242.3	242.3	242.3	242.3	242.4	242.3	242.4	242.3	242.3	242.3
147.5°	236.8	237.6	237.5	237.4	237.3	237.0	236.9	236.7	236.5	236.3	236.2
150°	231.3	231.9	231.6	231.4	231.0	230.7	230.3	230.1	229.7	229.5	229.1
152.5°	225.5	226.0	225.6	225.3	224.9	224.6	224.2	223.9	223.5	223.1	222.8
155°	218.8	219.0	218.8	218.6	218.4	218.3	218.0	217.9	217.8	217.5	217.4
157.5°	214.6	214.7	214.6	214.5	214.3	214.3	214.1	214.0	214.0	214.0	214.0
160°	212.1	212.3	212.1	212.0	211.9	211.8	211.6	211.6	211.6	211.6	211.6
162.5°	209.9	209.8	209.7	209.6	209.5	209.4	209.4	209.4	209.3	209.3	209.3
165°	209.4	209.5	209.3	209.1	208.9	208.7	208.5	208.4	208.3	208.1	208.0
167.5°	208.4	208.3	208.3	208.4	208.4	208.4	208.5	208.6	208.7	208.8	208.9
170°	209.1	209.2	209.0	209.0	208.8	208.7	208.6	208.6	208.5	208.4	208.4
172.5°	210.7	210.7	210.5	210.2	210.0	209.8	209.5	209.4	209.3	209.0	208.8
175°	211.0	210.9	210.9	210.8	210.7	210.5	210.3	210.2	210.1	210.0	209.9
177.5°	211.9	211.8	211.7	211.7	211.7	211.7	211.7	211.6	211.6	211.6	211.5
180°	212.1	212.1	212.1	212.1	212.1	212.1	212.1	212.1	212.1	212.1	212.1



TEST NUMBER: P1444428
 CATALOG NUMBER: EHBR1-12-UNV-TA-L830-UPL18

CANDELA DISTRIBUTION (continued):

	137.5°	140°	142.5°	145°	147.5°	150°	152.5°	155°	157.5°	160°	162.5°
0°	9928.9	9928.9	9928.9	9928.9	9928.9	9928.9	9928.9	9928.9	9928.9	9928.9	9928.9
2.5°	9893.3	9893.1	9892.2	9892.7	9892.9	9893.5	9894.4	9895.3	9895.5	9896.1	9896.3
5°	9967.3	9942.9	9924.7	9904.9	9889.9	9876.4	9867.4	9860.3	9857.5	9858.2	9859.9
7.5°	10168.1	10117.6	10075.9	10028.5	9989.0	9947.1	9912.4	9879.5	9855.4	9837.5	9827.5
10°	10388.4	10326.8	10268.0	10199.4	10134.3	10064.9	10002.0	9938.7	9885.9	9840.0	9806.4
12.5°	10486.2	10442.7	10391.8	10327.0	10257.4	10177.3	10096.4	10009.7	9929.0	9854.2	9793.8
15°	10382.7	10382.8	10364.2	10333.1	10284.8	10220.8	10143.6	10053.2	9958.1	9861.0	9772.3
17.5°	10054.1	10116.1	10150.6	10172.4	10165.6	10142.1	10093.0	10023.6	9934.9	9831.4	9723.1
20°	9489.8	9636.0	9740.3	9834.0	9886.6	9921.5	9918.0	9889.7	9826.5	9738.6	9625.8
22.5°	8699.3	8944.7	9138.3	9319.0	9445.7	9548.7	9597.7	9618.4	9589.8	9528.6	9422.7
25°	7739.2	8072.8	8357.7	8634.0	8841.3	9019.6	9126.6	9202.0	9208.0	9176.0	9081.6
27.5°	6672.3	7066.2	7426.6	7794.0	8085.5	8341.7	8509.7	8632.7	8671.8	8666.6	8580.8
30°	5606.8	6020.3	6417.6	6845.9	7206.7	7533.9	7755.9	7922.3	7986.4	7998.7	7916.2
32.5°	4600.5	5008.3	5404.4	5852.3	6249.3	6624.3	6886.6	7084.2	7158.8	7176.3	7085.8
35°	3687.3	4063.4	4440.0	4874.0	5268.7	5657.1	5933.4	6140.3	6209.9	6221.7	6116.9
37.5°	2895.3	3215.8	3543.9	3933.3	4295.7	4660.5	4923.2	5117.5	5168.3	5165.1	5046.6
40°	2228.4	2477.6	2741.3	3061.8	3363.3	3671.5	3893.2	4054.0	4080.7	4060.9	3936.4
42.5°	1675.7	1855.6	2046.8	2286.0	2509.7	2740.4	2901.7	3021.1	3024.9	2993.7	2881.9
45°	1248.4	1424.0	1504.1	1648.8	1792.9	1946.3	2044.7	2118.5	2107.1	2079.6	1994.6
47.5°	951.7	1019.1	1090.7	1180.4	1264.4	1438.5	1425.6	1543.9	1458.6	1516.8	1388.9
50°	755.7	793.4	832.0	879.7	923.4	968.9	997.4	1018.7	1015.9	1006.8	982.2
52.5°	643.0	654.6	673.6	700.7	725.1	749.7	765.9	779.2	779.3	775.7	763.3
55°	537.4	552.2	565.8	583.5	613.6	618.3	641.5	636.8	638.6	632.2	638.7
57.5°	473.8	482.4	490.1	500.6	509.3	519.5	525.5	531.2	530.7	529.4	523.2
60°	428.7	433.5	437.7	443.9	448.7	454.4	457.2	460.1	459.2	457.0	451.4
62.5°	394.0	397.0	399.4	403.3	406.3	409.8	411.3	412.5	411.3	409.2	404.3
65°	359.7	361.7	363.2	366.2	368.2	371.3	372.5	373.7	372.5	370.9	367.2
67.5°	328.8	329.0	328.9	330.1	330.7	332.5	333.1	333.9	332.6	331.2	328.0
70°	305.4	304.9	304.3	304.8	304.9	305.8	305.9	305.8	304.2	301.8	298.3
72.5°	287.1	286.8	286.4	286.7	286.7	287.6	287.3	286.9	284.9	282.7	279.2
75°	263.5	263.3	262.5	262.5	261.7	262.0	261.1	260.5	258.3	256.4	253.3
77.5°	236.0	235.5	234.2	233.7	232.3	231.7	230.0	229.0	226.9	225.3	222.7
80°	205.1	204.7	203.1	202.1	199.9	198.5	195.9	194.4	191.8	190.3	187.7
82.5°	169.6	169.8	168.1	167.0	163.8	161.4	157.8	156.0	153.2	151.7	149.0
85°	120.6	118.9	119.8	119.7	117.7	115.7	112.8	110.7	108.4	107.0	105.1
87.5°	66.1	66.6	66.1	65.7	64.3	63.2	61.0	59.8	58.1	57.2	55.8
90°	47.7	46.0	42.7	41.1	37.9	35.7	32.2	30.2	26.9	26.0	24.2
92.5°	50.4	47.6	44.8	41.8	39.1	36.2	33.3	30.4	27.5	26.5	25.6
95°	63.8	59.6	55.5	51.2	47.1	42.9	38.8	34.6	30.4	29.6	28.8
97.5°	71.8	66.9	62.0	57.1	52.2	47.3	42.5	37.6	32.7	32.1	31.7
100°	128.0	116.8	105.6	94.2	82.9	71.6	60.4	49.1	37.7	37.1	36.4
102.5°	293.7	266.4	239.0	211.5	184.3	156.8	129.4	102.0	74.7	70.7	66.8
105°	522.9	481.4	440.0	398.6	357.1	315.6	274.2	232.7	191.3	178.0	164.6
107.5°	687.9	649.0	610.1	571.1	532.1	493.1	454.2	415.1	376.1	352.7	329.3
110°	762.7	731.7	700.8	669.9	638.9	608.0	577.0	546.0	515.1	494.9	474.7



TEST NUMBER: P1444428
 CATALOG NUMBER: EHBR1-12-UNV-TA-L830-UPL18

CANDELA DISTRIBUTION (continued):

	137.5°	140°	142.5°	145°	147.5°	150°	152.5°	155°	157.5°	160°	162.5°
112.5°	753.2	730.5	707.9	685.1	662.5	639.7	617.0	594.3	571.6	559.3	547.0
115°	680.4	666.7	653.1	639.3	625.6	611.9	598.2	584.4	570.6	564.1	557.6
117.5°	593.9	586.8	579.7	572.6	565.6	558.5	551.4	544.2	537.2	535.0	532.6
120°	505.5	503.3	501.0	498.8	496.5	494.3	492.0	489.7	487.5	487.7	487.8
122.5°	431.8	432.5	433.2	433.8	434.5	435.1	435.9	436.4	437.1	438.7	440.3
125°	379.6	381.4	383.3	385.2	387.0	388.8	390.7	392.5	394.4	395.9	397.6
127.5°	341.7	343.9	346.0	348.1	350.2	352.4	354.5	356.5	358.6	360.0	361.6
130°	315.2	317.0	318.8	320.5	322.4	324.2	326.0	327.8	329.5	330.7	331.7
132.5°	295.5	297.1	298.8	300.3	301.9	303.5	305.2	306.7	308.4	309.1	309.9
135°	282.5	283.5	284.8	285.9	287.2	288.2	289.4	290.7	291.8	292.3	292.7
137.5°	270.7	271.6	272.5	273.4	274.4	275.3	276.2	277.2	278.2	278.3	278.6
140°	260.0	261.1	262.0	263.0	264.1	265.1	266.2	267.2	268.4	268.6	268.7
142.5°	252.0	252.6	253.5	254.2	255.1	255.8	256.7	257.5	258.3	258.5	258.7
145°	243.3	244.2	245.1	246.1	247.1	248.0	249.2	250.2	251.3	251.3	251.3
147.5°	237.0	237.8	238.7	239.5	240.4	241.2	242.1	243.1	244.1	244.1	244.1
150°	230.1	230.9	231.7	232.7	233.6	234.6	235.6	236.6	237.7	237.9	238.1
152.5°	223.8	224.7	225.7	226.7	227.8	228.9	230.1	231.1	232.2	232.4	232.7
155°	218.3	219.3	220.3	221.3	222.5	223.5	224.6	225.7	226.8	227.1	227.3
157.5°	214.9	215.7	216.7	217.6	218.5	219.5	220.5	221.4	222.4	222.7	222.8
160°	212.4	213.2	213.9	214.8	215.6	216.5	217.2	218.1	218.9	219.2	219.4
162.5°	210.1	210.9	211.7	212.4	213.3	214.1	214.9	215.7	216.6	216.8	217.0
165°	208.7	209.2	209.8	210.3	210.9	211.5	212.2	212.6	213.4	213.6	213.9
167.5°	209.4	209.7	210.2	210.7	211.1	211.6	212.1	212.5	213.0	213.3	213.5
170°	208.8	209.3	209.5	210.1	210.5	210.9	211.3	211.8	212.3	212.4	212.7
172.5°	209.1	209.4	209.6	209.9	210.2	210.5	210.8	211.1	211.4	211.7	211.9
175°	210.0	210.1	210.3	210.4	210.6	210.8	210.9	211.0	211.2	211.4	211.7
177.5°	211.6	211.7	211.9	212.0	212.2	212.3	212.5	212.6	212.7	213.0	213.4
180°	212.1	212.1	212.1	212.1	212.1	212.1	212.1	212.1	212.1	212.1	212.1



TEST NUMBER: P1444428
 CATALOG NUMBER: EHBR1-12-UNV-TA-L830-UPL18

CANDELA DISTRIBUTION (continued):

	165°	167.5°	170°	172.5°	175°	177.5°	180°	182.5°	185°	187.5°	190°
0°	9928.9	9928.9	9928.9	9928.9	9928.9	9928.9	9928.9	9928.9	9928.9	9928.9	9928.9
2.5°	9896.0	9895.9	9895.6	9895.1	9894.6	9894.9	9895.4	9896.5	9898.5	9901.4	9905.1
5°	9861.2	9863.3	9864.4	9864.6	9863.5	9862.9	9863.8	9866.5	9872.1	9881.2	9893.7
7.5°	9824.9	9827.3	9831.1	9834.0	9834.6	9833.9	9834.0	9838.3	9848.4	9866.4	9891.5
10°	9785.9	9778.5	9782.4	9789.5	9795.3	9796.3	9796.9	9802.0	9816.8	9843.9	9884.2
12.5°	9750.0	9726.6	9722.1	9728.5	9737.1	9739.9	9739.1	9741.3	9758.6	9794.4	9850.7
15°	9702.7	9658.7	9643.7	9645.3	9656.0	9659.8	9657.0	9652.7	9669.6	9713.4	9786.2
17.5°	9626.3	9555.3	9527.6	9526.4	9538.8	9542.2	9535.3	9522.0	9538.7	9593.3	9683.7
20°	9510.0	9405.2	9353.1	9344.8	9358.3	9354.3	9340.8	9320.7	9342.5	9409.0	9516.5
22.5°	9301.1	9168.2	9079.2	9050.5	9066.7	9055.9	9036.0	9010.4	9039.4	9114.8	9234.6
25°	8959.6	8806.1	8684.2	8615.8	8628.8	8609.4	8587.7	8556.7	8591.4	8678.0	8809.7
27.5°	8457.6	8280.4	8129.3	8016.2	8020.3	7995.0	7970.1	7930.0	7973.2	8075.6	8224.3
30°	7790.2	7585.1	7401.1	7247.3	7233.5	7209.0	7183.4	7130.9	7184.9	7307.6	7481.3
32.5°	6952.1	6724.3	6511.7	6317.3	6280.6	6256.7	6233.9	6173.3	6244.1	6387.1	6586.7
35°	5971.8	5729.2	5498.8	5276.7	5215.9	5191.9	5172.0	5114.0	5202.4	5358.1	5573.6
37.5°	4895.9	4648.0	4419.3	4191.5	4105.6	4073.1	4058.7	4020.6	4122.6	4276.5	4493.0
40°	3791.3	3560.9	3355.8	3154.6	3056.7	3006.9	2999.4	2992.5	3091.0	3224.6	3421.1
42.5°	2758.0	2572.1	2414.0	2260.2	2171.5	2103.6	2103.6	2124.2	2212.9	2312.9	2464.5
45°	1907.8	1783.0	1682.3	1579.6	1607.0	1471.7	1551.2	1510.3	1554.2	1618.7	1717.3
47.5°	1311.5	1243.3	1188.0	1130.6	1088.7	1048.7	1052.3	1078.1	1119.4	1157.6	1208.9
50°	955.8	921.2	893.0	863.2	842.3	824.7	825.7	836.9	858.6	878.7	905.5
52.5°	749.0	729.8	714.5	698.0	687.1	678.4	678.8	684.3	696.0	707.5	722.9
55°	617.3	615.0	595.1	580.3	574.7	568.8	569.9	572.0	580.0	586.7	596.9
57.5°	517.3	508.4	502.4	494.6	491.0	486.9	487.8	488.7	494.0	498.5	505.8
60°	446.7	440.3	436.1	430.8	428.5	425.8	426.5	427.0	430.3	433.3	438.6
62.5°	399.8	394.1	390.4	386.3	384.7	382.9	383.3	383.5	385.6	387.8	391.7
65°	363.8	359.3	356.2	352.7	351.0	349.1	349.3	349.3	351.2	352.7	355.7
67.5°	325.7	322.3	320.4	317.5	316.4	314.5	314.5	313.9	315.1	315.7	317.7
70°	295.2	291.8	289.3	286.5	285.0	283.4	283.4	283.4	284.9	286.3	288.9
72.5°	276.3	273.1	270.8	268.5	267.1	265.7	265.4	265.3	266.2	267.0	268.7
75°	251.3	248.7	247.4	245.2	244.1	242.5	242.2	241.5	242.0	242.1	243.5
77.5°	221.0	218.5	217.5	215.3	214.3	212.5	212.4	211.5	211.9	211.7	212.6
80°	186.5	184.3	183.6	181.8	181.3	179.7	179.4	178.4	178.7	178.0	178.3
82.5°	147.9	145.8	145.4	143.7	143.7	142.2	142.1	140.6	140.6	139.3	137.2
85°	104.2	102.7	102.0	100.6	100.2	99.0	98.4	96.9	96.5	95.5	95.3
87.5°	55.0	54.0	53.2	52.5	51.3	49.1	48.9	47.4	47.6	46.5	46.6
90°	23.4	21.7	21.0	19.3	18.5	17.2	16.6	17.0	17.7	18.3	18.9
92.5°	24.6	23.7	22.7	21.7	20.8	19.8	18.8	19.8	20.8	21.7	22.7
95°	27.9	27.1	26.1	25.3	24.4	23.6	22.8	23.6	24.4	25.4	26.2
97.5°	31.1	30.5	30.1	29.5	28.9	28.5	27.9	28.5	28.9	29.5	30.1
100°	35.9	35.2	34.6	33.9	33.3	32.7	32.0	32.8	33.4	34.0	34.7
102.5°	62.8	58.8	54.9	51.0	46.9	43.0	39.1	43.0	46.9	51.1	55.0
105°	151.3	138.0	124.6	111.3	98.0	84.6	71.3	84.7	98.1	111.4	124.7
107.5°	305.7	282.4	258.9	235.5	212.0	188.6	165.0	188.7	212.1	235.6	259.0
110°	454.5	434.2	413.9	393.7	373.5	353.1	332.9	353.1	373.5	393.7	414.0



TEST NUMBER: P1444428
 CATALOG NUMBER: EHBR1-12-UNV-TA-L830-UPL18

CANDELA DISTRIBUTION (continued):

	165°	167.5°	170°	172.5°	175°	177.5°	180°	182.5°	185°	187.5°	190°
112.5°	534.7	522.4	509.9	497.7	485.3	473.0	460.7	473.0	485.4	497.9	510.1
115°	551.1	544.5	538.0	531.5	524.8	518.4	511.7	518.5	525.0	531.7	538.3
117.5°	530.2	527.8	525.6	523.2	520.8	518.5	516.0	518.6	521.0	523.5	526.0
120°	487.9	488.1	488.3	488.4	488.6	488.7	488.8	488.8	488.8	488.8	488.8
122.5°	441.8	443.4	444.9	446.5	448.0	449.6	451.0	449.7	448.3	447.1	445.6
125°	399.2	401.0	402.5	404.1	405.6	407.3	408.7	407.5	406.1	404.7	403.2
127.5°	362.9	364.4	365.7	367.3	368.5	369.9	371.1	370.1	368.9	367.8	366.5
130°	332.7	333.8	334.7	335.8	336.7	337.7	338.5	337.9	337.1	336.5	335.5
132.5°	310.6	311.4	312.1	312.8	313.4	314.1	314.6	314.3	313.9	313.4	313.0
135°	293.2	293.6	294.1	294.5	294.9	295.2	295.3	295.4	295.3	295.3	295.1
137.5°	278.7	278.9	279.0	279.0	279.0	279.0	279.0	279.3	279.5	279.9	280.0
140°	268.7	269.0	269.1	269.2	269.3	269.3	269.2	269.6	269.8	270.1	270.1
142.5°	258.8	259.0	259.2	259.3	259.3	259.3	259.3	259.6	259.7	260.0	260.1
145°	251.4	251.4	251.4	251.4	251.3	251.1	250.9	251.4	251.8	252.1	252.4
147.5°	244.1	244.1	244.1	244.0	243.9	243.8	243.6	244.0	244.4	244.7	245.0
150°	238.3	238.5	238.7	238.9	238.9	239.0	239.0	239.1	239.3	239.5	239.6
152.5°	232.8	233.0	233.1	233.1	233.3	233.3	233.3	233.6	233.8	234.0	234.1
155°	227.5	227.8	228.0	228.2	228.4	228.6	228.7	228.8	228.9	229.0	229.1
157.5°	223.0	223.3	223.5	223.7	223.9	224.1	224.2	224.4	224.5	224.7	224.7
160°	219.6	219.8	219.9	220.2	220.4	220.6	220.7	220.9	221.1	221.2	221.3
162.5°	217.2	217.4	217.5	217.8	217.9	218.1	218.3	218.4	218.6	218.7	218.8
165°	214.1	214.4	214.8	215.1	215.3	215.6	215.8	215.9	215.9	216.0	216.0
167.5°	213.8	214.0	214.3	214.6	214.8	215.1	215.3	215.3	215.3	215.3	215.4
170°	212.9	213.1	213.5	213.7	213.9	214.1	214.3	214.3	214.3	214.4	214.4
172.5°	212.3	212.6	212.9	213.2	213.6	213.9	214.1	214.1	213.9	213.8	213.6
175°	212.0	212.3	212.5	212.8	213.0	213.4	213.7	213.5	213.4	213.2	213.1
177.5°	213.8	214.1	214.5	214.8	215.1	215.4	215.8	215.5	215.2	215.0	214.7
180°	212.1	212.1	212.1	212.1	212.1	212.1	212.1	212.1	212.1	212.1	212.1



TEST NUMBER: P1444428
 CATALOG NUMBER: EHBR1-12-UNV-TA-L830-UPL18

CANDELA DISTRIBUTION (continued):

	192.5°	195°	197.5°	200°	202.5°	205°	207.5°	210°	212.5°	215°	217.5°
0°	9928.9	9928.9	9928.9	9928.9	9928.9	9928.9	9928.9	9928.9	9928.9	9928.9	9928.9
2.5°	9910.4	9915.3	9922.9	9929.9	9940.2	9948.3	9960.6	9969.9	9983.7	9992.7	10007.8
5°	9911.3	9930.7	9956.2	9981.1	10011.0	10038.1	10071.9	10100.6	10134.5	10162.2	10196.9
7.5°	9925.3	9962.7	10007.5	10052.7	10103.7	10151.5	10205.3	10254.1	10307.3	10352.4	10401.6
10°	9935.7	9993.3	10059.3	10125.8	10195.8	10260.8	10326.4	10383.0	10436.1	10479.7	10518.2
12.5°	9921.6	10001.1	10085.8	10167.7	10245.4	10312.7	10369.2	10412.7	10442.9	10463.3	10468.1
15°	9873.9	9969.6	10061.8	10143.2	10207.8	10257.5	10283.3	10295.4	10282.4	10260.9	10213.7
17.5°	9785.0	9885.7	9968.2	10032.4	10066.5	10080.1	10058.8	10021.6	9949.1	9868.5	9752.2
20°	9621.8	9715.7	9775.5	9810.5	9801.4	9767.6	9687.1	9589.1	9444.3	9289.8	9086.1
22.5°	9335.5	9417.7	9449.5	9452.0	9396.4	9311.9	9166.5	8998.6	8770.0	8532.4	8240.2
25°	8905.9	8977.8	8982.9	8954.6	8852.6	8715.7	8502.3	8264.6	7954.1	7637.5	7271.3
27.5°	8323.1	8392.1	8375.2	8322.5	8181.0	7997.8	7724.6	7417.5	7034.6	6660.7	6255.6
30°	7590.5	7664.3	7644.5	7576.9	7408.6	7192.1	6870.6	6513.8	6088.7	5689.3	5278.8
32.5°	6714.0	6807.2	6793.5	6729.2	6553.7	6321.9	5973.0	5594.7	5159.8	4766.2	4366.8
35°	5717.5	5830.7	5836.6	5794.6	5631.6	5402.6	5058.0	4691.9	4275.2	3903.9	3535.0
37.5°	4644.0	4775.3	4802.2	4790.9	4655.8	4453.7	4139.8	3811.2	3442.2	3116.7	2801.2
40°	3564.6	3697.5	3743.6	3757.2	3657.6	3500.9	3243.4	2978.2	2677.3	2413.6	2163.0
42.5°	2580.2	2697.9	2742.5	2770.5	2708.3	2603.9	2416.0	2223.4	2003.0	1812.8	1630.4
45°	1791.9	1875.3	1909.2	1937.4	1903.5	1844.6	1725.9	1605.5	1460.0	1335.7	1218.0
47.5°	1252.8	1298.8	1321.2	1334.9	1321.8	1291.0	1226.4	1156.6	1074.5	1001.9	932.0
50°	928.7	953.1	964.8	972.7	963.1	946.1	911.1	873.1	828.1	786.9	746.7
52.5°	735.9	749.9	756.9	761.2	755.6	745.2	724.9	702.3	675.3	649.9	636.5
55°	620.0	619.3	635.3	627.6	635.3	617.9	614.4	589.6	567.1	551.3	534.2
57.5°	511.3	518.6	521.7	525.1	522.9	519.7	511.1	502.2	490.4	480.4	469.9
60°	442.6	448.6	452.0	455.3	455.1	453.9	449.0	443.6	436.3	430.3	424.0
62.5°	395.3	400.4	403.8	407.1	407.4	406.9	403.1	399.4	394.4	390.6	386.2
65°	358.0	361.7	363.9	366.5	366.4	365.7	362.3	359.2	355.1	352.5	349.2
67.5°	319.0	321.8	323.5	326.1	326.5	326.6	324.8	323.4	321.3	320.5	319.5
70°	291.3	294.7	297.5	300.7	302.4	303.1	302.4	301.6	300.4	299.9	299.1
72.5°	270.3	273.1	275.4	278.2	279.8	280.9	280.4	279.9	278.9	278.8	278.1
75°	244.3	246.3	247.5	249.6	250.5	251.5	251.0	251.3	251.0	251.8	251.8
77.5°	213.0	214.4	215.0	216.6	216.7	218.0	218.3	219.8	220.9	223.2	224.4
80°	177.7	178.6	178.6	180.2	181.0	183.1	184.2	186.6	187.7	189.9	190.1
82.5°	138.1	137.0	138.1	137.4	139.4	141.8	142.2	144.3	144.7	146.1	145.1
85°	94.4	94.3	93.5	93.6	93.0	93.3	92.9	93.3	92.9	93.0	92.0
87.5°	45.2	45.6	44.7	45.0	44.0	44.5	43.7	44.3	43.3	43.5	42.0
90°	19.6	20.2	20.8	21.5	22.4	24.2	26.0	27.8	29.9	31.7	33.6
92.5°	23.7	24.6	25.6	26.6	27.5	30.4	33.3	36.2	39.2	41.9	44.8
95°	27.2	28.0	28.9	29.8	30.6	34.8	39.0	43.1	47.3	51.4	55.6
97.5°	30.6	31.2	31.8	32.2	32.8	37.7	42.6	47.5	52.4	57.3	62.2
100°	35.3	36.0	36.5	37.3	37.9	49.3	60.6	71.8	83.2	94.4	105.8
102.5°	58.9	62.9	66.9	70.9	74.8	102.3	129.6	157.1	184.4	211.8	239.2
105°	138.1	151.4	164.8	178.2	191.5	233.0	274.5	316.0	357.4	398.9	440.3
107.5°	282.5	305.9	329.5	353.0	376.5	415.5	454.5	493.5	532.5	571.5	610.5
110°	434.4	454.6	474.9	495.2	515.5	546.4	577.5	608.5	639.4	670.5	701.4



TEST NUMBER: P1444428
 CATALOG NUMBER: EHBR1-12-UNV-TA-L830-UPL18

CANDELA DISTRIBUTION (continued):

	192.5°	195°	197.5°	200°	202.5°	205°	207.5°	210°	212.5°	215°	217.5°
112.5°	522.7	535.0	547.3	559.7	572.0	594.8	617.6	640.3	663.2	685.8	708.5
115°	544.9	551.4	558.1	564.6	571.2	585.1	598.8	612.6	626.4	640.1	653.9
117.5°	528.3	530.7	533.2	535.5	537.9	545.0	552.2	559.3	566.5	573.6	580.8
120°	488.8	488.7	488.6	488.4	488.3	490.6	493.0	495.3	497.6	499.9	502.2
122.5°	444.1	442.6	441.2	439.6	438.1	437.4	436.9	436.2	435.8	435.0	434.4
125°	401.8	400.3	398.7	397.2	395.6	393.8	392.0	390.1	388.4	386.6	384.7
127.5°	365.3	363.9	362.7	361.3	360.0	357.9	355.9	353.8	351.7	349.7	347.5
130°	334.9	333.9	333.1	332.0	331.1	329.3	327.6	325.8	324.0	322.3	320.5
132.5°	312.5	311.9	311.3	310.6	310.0	308.4	307.0	305.3	303.7	302.2	300.7
135°	294.8	294.5	294.2	293.9	293.6	292.4	291.3	290.2	289.2	287.9	286.8
137.5°	280.1	280.1	280.2	280.1	280.1	279.1	278.2	277.4	276.5	275.6	274.6
140°	270.2	270.2	270.4	270.3	270.3	269.3	268.4	267.3	266.4	265.4	264.3
142.5°	260.2	260.3	260.4	260.4	260.4	259.6	258.9	258.2	257.4	256.7	255.9
145°	252.5	252.8	253.0	253.1	253.3	252.3	251.4	250.5	249.6	248.6	247.8
147.5°	245.3	245.5	245.7	246.0	246.2	245.3	244.6	243.7	243.0	242.2	241.6
150°	239.7	239.7	239.9	239.9	239.9	239.0	238.2	237.4	236.6	235.7	234.9
152.5°	234.3	234.4	234.5	234.5	234.6	233.7	232.8	231.9	231.0	230.0	229.1
155°	229.2	229.2	229.2	229.2	229.2	228.4	227.5	226.7	225.8	224.9	224.1
157.5°	224.8	224.9	225.0	225.0	225.1	224.3	223.6	222.8	222.1	221.3	220.5
160°	221.3	221.4	221.5	221.6	221.6	221.0	220.4	219.8	219.2	218.4	217.8
162.5°	218.9	219.1	219.1	219.2	219.3	218.6	218.0	217.4	216.8	216.1	215.4
165°	215.9	215.9	215.9	215.8	215.8	215.3	215.1	214.6	214.2	213.7	213.3
167.5°	215.3	215.3	215.3	215.3	215.3	215.0	214.7	214.3	213.9	213.7	213.3
170°	214.3	214.2	214.2	214.2	214.1	213.9	213.6	213.3	213.0	212.6	212.3
172.5°	213.6	213.4	213.2	213.1	212.9	212.7	212.4	212.3	212.2	211.9	211.7
175°	212.8	212.7	212.5	212.4	212.2	212.2	212.1	212.0	211.9	211.7	211.6
177.5°	214.3	214.1	213.9	213.5	213.3	213.2	213.1	212.9	212.9	212.8	212.7
180°	212.1	212.1	212.1	212.1	212.1	212.1	212.1	212.1	212.1	212.1	212.1



TEST NUMBER: P1444428
 CATALOG NUMBER: EHBR1-12-UNV-TA-L830-UPL18

CANDELA DISTRIBUTION (continued):

	220°	222.5°	225°	227.5°	230°	232.5°	235°	237.5°	240°	242.5°	245°
0°	9928.9	9928.9	9928.9	9928.9	9928.9	9928.9	9928.9	9928.9	9928.9	9928.9	9928.9
2.5°	10017.1	9955.2	9947.1	9951.4	9961.7	9965.6	9976.7	9979.8	9991.0	9993.7	10004.5
5°	10223.8	10142.0	10146.1	10165.7	10195.5	10213.2	10242.5	10257.8	10285.7	10298.5	10323.7
7.5°	10441.8	10377.5	10397.6	10430.7	10471.4	10499.6	10534.7	10557.6	10587.9	10606.7	10631.0
10°	10548.7	10531.1	10553.1	10579.3	10602.5	10620.7	10635.6	10647.5	10655.3	10662.7	10665.8
12.5°	10467.3	10494.5	10498.3	10495.7	10480.4	10468.7	10442.2	10424.4	10392.5	10373.1	10335.3
15°	10165.4	10225.3	10192.1	10141.9	10068.5	10007.2	9920.8	9856.4	9766.3	9705.2	9614.8
17.5°	9635.6	9711.1	9624.8	9508.6	9360.9	9234.5	9077.1	8952.2	8795.7	8681.9	8535.9
20°	8889.7	8960.4	8806.3	8613.8	8385.2	8192.8	7966.1	7785.1	7574.3	7417.5	7228.3
22.5°	7961.1	8011.4	7794.3	7534.8	7243.6	7003.3	6732.1	6515.2	6274.5	6095.4	5893.6
25°	6933.7	6947.3	6686.9	6387.9	6063.3	5793.3	5503.7	5275.6	5030.3	4848.6	4650.7
27.5°	5896.7	5876.8	5595.3	5278.4	4936.9	4656.3	4373.9	4160.1	3945.2	3781.6	3611.0
30°	4918.0	4869.8	4577.5	4251.6	3920.3	3668.7	3434.3	3262.7	3091.7	2961.9	2824.9
32.5°	4020.4	3952.4	3668.0	3362.7	3083.5	2889.3	2715.4	2585.6	2447.5	2337.8	2223.0
35°	3225.5	3153.0	2901.0	2642.2	2430.9	2287.7	2151.1	2044.6	1927.4	1834.8	1735.1
37.5°	2543.2	2483.8	2272.7	2069.0	1909.2	1798.3	1686.4	1599.2	1502.4	1461.6	1355.0
40°	1963.3	1921.8	1756.8	1606.6	1486.6	1434.5	1320.9	1239.5	1167.1	1107.5	1049.6
42.5°	1531.4	1516.7	1356.1	1239.0	1154.5	1088.8	1025.5	974.1	924.1	882.9	844.1
45°	1123.9	1112.2	1040.9	973.3	915.7	869.8	827.0	791.7	758.9	731.9	707.2
47.5°	875.2	871.4	830.3	788.4	752.2	722.7	694.9	671.4	649.7	631.6	625.7
50°	711.8	711.3	687.2	661.3	635.5	618.4	600.7	586.8	572.9	562.0	550.6
52.5°	604.7	602.1	585.9	569.9	554.6	543.4	532.1	523.2	514.0	507.2	500.1
55°	520.6	523.4	514.0	504.4	494.9	487.9	480.0	474.1	467.8	463.6	459.3
57.5°	462.2	465.8	461.0	455.5	449.7	445.1	439.6	435.6	431.4	428.6	426.2
60°	419.7	423.7	421.7	419.0	415.3	412.6	409.2	406.9	404.2	402.7	401.3
62.5°	383.7	388.6	387.9	386.7	384.3	382.8	380.9	379.9	378.1	377.4	376.7
65°	347.7	353.2	353.1	352.5	351.3	350.8	349.6	349.4	348.5	348.8	348.7
67.5°	319.3	324.2	325.3	326.1	326.1	326.3	326.3	326.7	326.7	327.4	327.8
70°	298.9	302.4	303.1	304.0	304.1	304.8	304.8	305.3	305.1	305.7	305.8
72.5°	278.3	282.8	283.5	284.2	284.2	284.9	284.5	284.4	283.5	283.4	282.7
75°	252.6	258.3	259.6	260.4	260.5	261.1	260.3	259.7	258.3	257.7	256.7
77.5°	225.7	231.7	232.6	232.9	232.4	232.5	230.9	229.8	227.9	227.2	226.1
80°	190.9	199.6	200.3	199.7	198.4	198.1	196.6	195.6	193.3	192.5	191.7
82.5°	145.3	155.5	156.9	157.6	156.4	156.7	155.2	154.6	152.5	152.1	150.8
85°	91.7	101.9	103.6	103.3	102.3	102.0	101.2	101.4	101.3	101.8	102.1
87.5°	42.2	52.0	54.4	53.7	53.6	52.8	51.2	51.9	52.8	53.4	53.5
90°	35.5	40.4	42.2	40.7	38.5	36.9	34.7	33.3	31.2	29.8	27.7
92.5°	47.7	50.5	53.4	50.9	48.2	45.7	43.2	40.6	38.0	35.5	32.9
95°	59.8	63.9	68.0	64.6	61.1	57.7	54.2	50.9	47.4	44.0	40.6
97.5°	67.1	71.9	76.8	73.4	70.0	66.5	63.0	59.7	56.2	52.8	49.4
100°	117.0	128.2	139.5	129.7	120.1	110.3	100.6	90.9	81.1	71.4	61.7
102.5°	266.6	293.8	321.2	296.7	272.1	247.5	222.9	198.4	173.9	149.2	124.7
105°	481.7	523.1	564.5	526.9	489.4	452.0	414.5	376.9	339.5	302.0	264.5
107.5°	649.4	688.2	727.1	693.2	659.3	625.4	591.5	557.7	523.8	489.9	456.1
110°	732.3	763.0	793.9	771.1	748.4	725.7	702.9	680.2	657.5	634.9	612.1



TEST NUMBER: P1444428
 CATALOG NUMBER: EHBR1-12-UNV-TA-L830-UPL18

CANDELA DISTRIBUTION (continued):

	220°	222.5°	225°	227.5°	230°	232.5°	235°	237.5°	240°	242.5°	245°
112.5°	731.3	753.6	776.2	762.9	749.6	736.4	723.1	709.9	696.7	683.5	670.3
115°	667.6	680.8	694.4	689.1	684.0	678.7	673.6	668.4	663.3	658.1	653.1
117.5°	587.8	594.3	601.3	600.3	599.5	598.6	597.7	597.0	596.1	595.3	594.5
120°	504.5	506.1	508.2	508.8	509.8	510.5	511.4	512.2	513.1	513.9	514.8
122.5°	433.8	432.5	431.5	432.3	433.1	433.8	434.6	435.4	436.2	437.0	437.9
125°	382.9	380.2	378.1	377.4	376.7	375.9	375.2	374.4	373.7	373.0	372.3
127.5°	345.6	342.6	340.2	338.3	336.4	334.4	332.5	330.6	328.7	326.7	324.9
130°	318.8	316.0	314.1	311.5	309.1	306.6	304.1	301.6	299.1	296.7	294.2
132.5°	299.1	296.6	294.8	292.3	290.1	287.7	285.2	282.9	280.5	278.0	275.8
135°	285.7	283.5	282.1	280.0	277.9	275.8	273.6	271.4	269.3	267.1	265.0
137.5°	273.8	271.7	270.6	268.9	267.2	265.5	263.9	262.2	260.5	258.6	257.0
140°	263.4	261.2	259.9	259.1	258.2	257.3	256.4	255.4	254.5	253.7	252.7
142.5°	255.2	253.2	252.2	251.7	251.1	250.6	250.1	249.5	248.9	248.3	247.8
145°	246.8	244.5	243.4	243.3	243.5	243.5	243.5	243.5	243.5	243.5	243.6
147.5°	240.7	238.4	237.3	237.5	237.7	237.8	238.1	238.2	238.5	238.6	238.9
150°	234.0	231.4	230.1	230.4	230.7	231.1	231.5	231.8	232.1	232.5	232.8
152.5°	228.2	225.1	223.6	224.0	224.3	224.7	225.1	225.5	225.8	226.3	226.7
155°	223.1	219.8	218.3	218.3	218.5	218.7	218.8	219.1	219.3	219.5	219.8
157.5°	219.7	216.3	214.9	214.8	214.9	214.9	215.0	215.2	215.3	215.3	215.5
160°	217.2	213.9	212.4	212.4	212.4	212.4	212.4	212.6	212.7	212.8	212.9
162.5°	214.8	211.5	210.1	210.1	210.1	210.1	210.2	210.2	210.3	210.4	210.5
165°	212.7	210.0	208.9	208.9	209.1	209.2	209.3	209.5	209.6	209.8	210.1
167.5°	213.0	210.5	209.6	209.5	209.4	209.3	209.3	209.2	209.2	209.1	209.1
170°	211.9	209.9	209.2	209.2	209.3	209.4	209.4	209.4	209.4	209.6	209.7
172.5°	211.4	209.9	209.4	209.5	209.8	210.0	210.2	210.4	210.6	210.8	211.0
175°	211.5	210.7	210.5	210.5	210.6	210.7	210.8	210.9	211.0	211.1	211.3
177.5°	212.5	212.3	212.1	212.1	212.1	212.1	212.1	212.1	212.1	212.2	212.2
180°	212.1	212.1	212.1	212.1	212.1	212.1	212.1	212.1	212.1	212.1	212.1



TEST NUMBER: P1444428
 CATALOG NUMBER: EHBR1-12-UNV-TA-L830-UPL18

CANDELA DISTRIBUTION (continued):

	247.5°	250°	252.5°	255°	257.5°	260°	262.5°	265°	267.5°	270°	272.5°
0°	9928.9	9928.9	9928.9	9928.9	9928.9	9928.9	9928.9	9928.9	9928.9	9928.9	9928.9
2.5°	10006.6	10018.2	10017.4	10028.2	10027.7	10038.0	10035.9	10044.8	10042.7	10050.3	10045.8
5°	10334.8	10357.0	10364.3	10384.4	10388.5	10406.4	10406.7	10421.0	10419.3	10430.4	10424.5
7.5°	10645.3	10666.0	10675.9	10691.4	10699.2	10712.0	10717.1	10727.7	10730.2	10736.5	10736.3
10°	10671.5	10671.5	10676.2	10674.1	10678.5	10676.0	10681.3	10679.3	10687.2	10685.1	10691.0
12.5°	10318.9	10283.9	10271.1	10239.7	10232.8	10205.8	10207.8	10190.5	10198.8	10188.2	10206.3
15°	9561.1	9480.0	9439.9	9369.2	9347.1	9291.3	9286.8	9249.7	9259.7	9240.4	9268.6
17.5°	8441.3	8313.5	8243.4	8140.3	8099.4	8020.5	8004.6	7957.0	7964.4	7940.4	7974.6
20°	7106.2	6951.8	6863.4	6744.1	6691.0	6596.9	6571.9	6518.6	6525.3	6501.4	6540.1
22.5°	5755.9	5594.2	5494.4	5369.4	5301.6	5213.1	5186.6	5133.0	5136.0	5113.6	5150.8
25°	4515.0	4360.0	4263.1	4149.6	4090.7	4009.6	3981.7	3933.5	3936.2	3917.8	3951.1
27.5°	3492.7	3365.5	3284.4	3189.3	3136.5	3069.8	3042.6	3002.2	3002.0	2988.5	3016.4
30°	2729.4	2623.3	2550.4	2467.6	2417.9	2357.8	2331.5	2295.3	2293.7	2284.1	2306.3
32.5°	2137.0	2042.6	1976.2	1903.3	1858.8	1807.1	1782.3	1753.1	1750.5	1741.8	1760.0
35°	1661.3	1581.7	1524.7	1463.2	1467.8	1391.7	1404.3	1345.1	1329.1	1325.5	1339.1
37.5°	1283.9	1222.4	1175.9	1130.0	1098.9	1066.7	1049.4	1033.8	1032.1	1030.6	1040.0
40°	1005.0	961.9	928.2	896.6	875.2	855.6	844.7	836.2	834.1	833.0	838.7
42.5°	813.3	784.3	762.6	743.3	730.3	719.6	713.7	708.9	707.3	707.4	710.8
45°	687.2	669.6	655.5	643.6	635.3	638.9	628.2	633.8	626.4	634.1	629.0
47.5°	605.2	590.1	581.5	573.0	568.0	563.9	564.1	564.2	565.8	566.0	567.6
50°	541.9	533.2	527.2	521.7	519.1	517.0	517.7	518.3	519.9	520.0	521.2
52.5°	495.1	489.3	485.7	482.3	481.2	480.0	480.4	480.3	480.9	480.6	481.6
55°	456.9	454.2	453.1	451.9	452.1	451.7	451.9	450.7	450.0	449.1	449.9
57.5°	425.6	425.3	426.0	426.6	428.0	428.5	428.8	427.4	426.1	424.9	425.6
60°	401.6	402.1	404.0	405.6	407.7	408.6	409.2	408.4	407.5	406.4	407.0
62.5°	377.8	378.7	381.0	382.7	385.2	386.5	387.9	388.0	388.4	388.0	388.4
65°	350.1	351.3	353.3	354.8	357.2	358.3	359.7	360.0	360.8	360.6	361.3
67.5°	329.2	330.2	332.0	333.3	335.3	336.6	337.9	337.9	338.2	338.2	338.8
70°	306.9	307.3	308.9	310.1	312.1	313.3	314.7	315.2	316.1	316.2	317.0
72.5°	283.0	282.8	283.6	284.2	285.7	286.7	288.6	289.6	291.1	291.5	292.1
75°	257.0	256.8	257.9	258.3	259.7	260.6	262.7	264.1	266.5	267.4	267.1
77.5°	227.0	227.4	229.5	230.6	232.4	233.6	236.3	238.5	242.9	244.9	242.9
80°	193.3	193.8	196.0	197.1	199.3	200.8	203.9	206.5	210.4	211.2	210.1
82.5°	151.9	152.1	154.0	154.8	157.8	160.0	163.9	165.9	168.3	168.0	167.7
85°	103.6	105.0	107.4	109.8	113.5	117.0	120.6	123.6	121.6	124.9	121.1
87.5°	55.4	55.3	58.5	58.0	63.1	66.1	69.2	70.7	72.5	72.1	72.1
90°	26.5	25.2	24.7	23.2	23.0	21.5	21.5	20.1	20.3	18.7	21.0
92.5°	30.3	28.9	27.5	26.2	24.8	23.4	22.0	20.7	19.3	17.9	19.3
95°	37.2	35.9	34.7	33.3	32.0	30.8	29.5	28.2	27.0	25.7	27.3
97.5°	46.0	45.2	44.5	43.7	43.0	42.3	41.6	40.8	40.1	39.3	40.4
100°	52.0	52.0	52.0	52.0	51.9	51.9	51.9	51.9	51.9	51.9	52.7
102.5°	100.1	97.7	95.3	92.7	90.3	87.8	85.3	82.9	80.5	78.0	81.7
105°	227.1	217.5	207.9	198.3	188.6	179.0	169.4	159.8	150.2	140.6	150.5
107.5°	422.3	404.7	387.1	369.7	352.1	334.6	317.1	299.7	282.1	264.6	280.3
110°	589.5	570.9	552.4	533.8	515.2	496.5	478.0	459.5	440.9	422.4	437.3



TEST NUMBER: P1444428
 CATALOG NUMBER: EHBR1-12-UNV-TA-L830-UPL18

CANDELA DISTRIBUTION (continued):

	247.5°	250°	252.5°	255°	257.5°	260°	262.5°	265°	267.5°	270°	272.5°
112.5°	657.1	645.0	633.1	621.0	609.1	597.2	585.3	573.3	561.4	549.4	556.6
115°	647.8	642.2	636.4	630.8	625.1	619.4	613.6	608.0	602.3	596.7	597.2
117.5°	593.7	591.8	589.8	588.0	586.2	584.2	582.4	580.7	578.7	577.0	573.0
120°	515.8	516.3	516.9	517.6	518.3	518.9	519.5	520.2	521.0	521.7	516.3
122.5°	438.7	440.1	441.6	443.1	444.5	446.2	447.7	449.2	450.8	452.4	447.0
125°	371.6	373.0	374.4	375.9	377.3	378.8	380.4	382.0	383.5	385.2	380.6
127.5°	323.0	323.5	324.0	324.6	325.1	325.8	326.4	327.1	327.8	328.7	325.8
130°	291.8	291.3	290.9	290.5	290.0	289.8	289.5	289.2	289.0	288.8	287.5
132.5°	273.3	272.2	271.2	270.1	269.0	268.0	267.1	266.2	265.3	264.5	264.1
135°	262.8	261.2	259.7	258.3	256.7	255.4	253.9	252.6	251.4	250.1	250.3
137.5°	255.3	253.8	252.3	250.8	249.2	247.9	246.4	245.0	243.8	242.6	243.0
140°	251.8	250.2	248.7	247.2	245.8	244.4	243.0	241.7	240.4	239.2	239.4
142.5°	247.2	245.8	244.4	243.1	241.8	240.5	239.2	238.0	236.9	235.8	236.1
145°	243.6	242.6	241.6	240.5	239.6	238.7	237.6	236.9	236.1	235.3	235.4
147.5°	239.0	238.2	237.4	236.6	235.9	235.3	234.6	233.9	233.2	232.7	232.8
150°	233.1	232.7	232.1	231.6	231.2	230.7	230.3	229.9	229.5	229.1	229.0
152.5°	227.1	226.6	226.1	225.7	225.3	224.8	224.4	224.1	223.8	223.3	223.3
155°	220.0	219.8	219.6	219.4	219.2	219.0	218.8	218.8	218.5	218.4	218.4
157.5°	215.6	215.5	215.4	215.5	215.4	215.3	215.3	215.3	215.3	215.3	215.4
160°	213.1	213.0	212.8	212.7	212.5	212.4	212.4	212.3	212.2	212.1	212.3
162.5°	210.6	210.8	210.8	210.9	210.9	211.0	211.1	211.2	211.3	211.5	211.6
165°	210.3	210.2	210.2	210.0	210.0	210.0	210.0	209.9	209.9	210.0	210.2
167.5°	209.1	209.2	209.3	209.4	209.4	209.7	209.9	210.1	210.2	210.5	210.7
170°	209.7	209.7	209.7	209.7	209.7	209.8	209.8	209.8	209.9	210.0	210.1
172.5°	211.2	211.2	211.1	211.2	211.1	211.2	211.2	211.2	211.2	211.3	211.4
175°	211.3	211.5	211.6	211.8	211.9	212.0	212.1	212.3	212.4	212.4	212.4
177.5°	212.2	212.2	212.2	212.2	212.2	212.3	212.3	212.3	212.3	212.2	212.3
180°	212.1	212.1	212.1	212.1	212.1	212.1	212.1	212.1	212.1	212.1	212.1



TEST NUMBER: P1444428
 CATALOG NUMBER: EHBR1-12-UNV-TA-L830-UPL18

CANDELA DISTRIBUTION (continued):

	275°	277.5°	280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°
0°	9928.9	9928.9	9928.9	9928.9	9928.9	9928.9	9928.9	9928.9	9928.9	9928.9	9928.9
2.5°	10053.2	10048.2	10053.3	10048.2	10053.3	10047.1	10051.4	10044.6	10046.3	10039.3	10041.1
5°	10433.3	10425.4	10429.6	10419.2	10420.3	10406.4	10406.2	10390.0	10385.7	10367.2	10359.2
7.5°	10740.8	10738.1	10739.6	10732.9	10732.2	10722.6	10718.1	10704.7	10696.3	10679.3	10667.7
10°	10692.1	10699.9	10702.0	10710.0	10711.6	10719.5	10721.2	10729.1	10730.7	10736.6	10736.7
12.5°	10205.4	10232.0	10238.4	10271.3	10285.2	10322.7	10342.9	10384.4	10408.9	10450.3	10475.7
15°	9267.9	9314.0	9332.3	9396.5	9432.0	9506.9	9554.0	9640.0	9700.7	9792.1	9857.3
17.5°	7977.6	8041.9	8071.0	8158.0	8214.7	8325.4	8405.0	8536.2	8636.6	8782.4	8898.0
20°	6546.8	6618.2	6657.7	6756.9	6823.9	6953.1	7052.6	7213.8	7348.2	7533.0	7690.9
22.5°	5162.5	5230.5	5274.2	5375.2	5450.7	5585.4	5696.7	5866.8	6017.4	6225.6	6415.0
25°	3963.8	4026.2	4065.7	4157.0	4227.9	4351.8	4457.9	4621.5	4769.0	4977.8	5171.9
27.5°	3030.3	3082.5	3120.6	3198.5	3261.0	3366.0	3457.2	3592.5	3719.5	3900.1	4073.1
30°	2319.9	2366.2	2403.3	2471.1	2529.1	2620.2	2700.3	2814.0	2919.1	3062.8	3200.4
32.5°	1772.8	1812.6	1845.7	1905.1	1957.6	2039.6	2111.9	2211.5	2301.7	2423.5	2536.8
35°	1351.7	1430.1	1424.5	1506.5	1519.6	1578.4	1643.0	1730.0	1809.9	1913.6	2009.9
37.5°	1049.1	1071.2	1094.8	1131.0	1169.1	1222.6	1277.1	1383.4	1422.5	1500.8	1580.5
40°	846.0	860.9	876.6	901.0	927.6	965.4	1005.0	1055.8	1107.8	1171.3	1236.2
42.5°	715.3	723.7	733.6	748.0	764.4	788.3	814.8	849.2	885.5	930.2	975.8
45°	639.0	635.0	638.0	645.7	655.6	670.1	686.9	708.2	731.8	760.7	791.5
47.5°	568.0	569.6	570.5	574.7	580.0	589.8	599.9	614.4	642.3	650.7	667.6
50°	521.1	521.8	521.6	523.7	526.4	532.7	539.3	549.1	558.8	571.9	584.2
52.5°	481.7	482.8	482.7	484.1	485.5	489.5	493.6	500.6	507.0	515.3	522.3
55°	450.7	452.1	452.8	453.9	454.7	456.7	458.4	461.7	464.4	469.1	473.4
57.5°	426.8	428.8	429.8	430.2	429.4	429.3	428.7	429.4	429.9	432.5	434.9
60°	407.9	409.6	409.9	409.6	408.1	407.0	405.2	404.7	404.4	405.6	406.9
62.5°	388.3	388.9	388.5	388.0	386.2	385.2	383.3	382.6	382.0	382.9	383.6
65°	361.1	361.6	361.1	360.7	359.2	358.3	356.8	356.2	355.4	355.6	355.5
67.5°	338.9	339.5	339.1	338.6	337.6	337.0	335.9	335.2	334.1	333.7	332.9
70°	316.9	317.3	316.7	316.2	315.0	314.5	313.5	313.2	312.4	312.2	311.4
72.5°	291.5	291.6	290.7	290.5	289.5	289.4	289.1	289.4	289.4	289.8	289.6
75°	265.7	265.3	264.2	264.0	263.2	263.6	263.1	263.8	263.8	264.7	264.9
77.5°	239.6	238.3	236.1	235.2	233.8	233.6	232.8	233.3	233.1	234.3	234.7
80°	206.8	205.1	202.4	201.2	199.5	199.2	198.5	199.2	198.9	200.2	201.1
82.5°	165.1	163.6	160.9	159.9	157.9	158.1	157.3	158.1	158.0	159.9	161.0
85°	122.1	121.2	118.3	115.8	113.0	111.3	109.7	109.4	108.8	109.7	110.3
87.5°	70.5	69.7	67.4	65.9	61.0	61.2	59.2	59.1	58.6	58.2	59.2
90°	21.4	23.3	23.9	25.8	26.4	28.5	29.2	31.2	31.9	34.2	35.0
92.5°	20.7	22.0	23.4	24.8	26.2	27.5	28.9	30.3	33.3	36.3	39.3
95°	28.9	30.4	32.0	33.7	35.3	36.9	38.5	40.1	44.5	48.8	53.2
97.5°	41.5	42.5	43.6	44.7	45.7	46.7	47.9	48.9	53.6	58.3	62.9
100°	53.6	54.4	55.3	56.2	57.0	57.9	58.7	59.6	68.8	77.8	86.8
102.5°	85.2	88.9	92.5	96.1	99.9	103.5	107.1	110.7	131.5	152.3	173.1
105°	160.5	170.4	180.4	190.2	200.2	210.1	220.0	230.0	263.2	296.6	329.9
107.5°	296.0	311.6	327.4	343.1	358.9	374.5	390.2	406.0	438.4	470.9	503.3
110°	452.2	467.1	482.1	497.1	512.1	527.0	542.0	557.0	576.5	595.8	615.4



TEST NUMBER: P1444428
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CANDELA DISTRIBUTION (continued):

	275°	277.5°	280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°
112.5°	563.9	571.1	578.4	585.7	593.0	600.3	607.6	614.9	624.6	634.3	644.0
115°	597.6	598.1	598.5	599.0	599.4	600.0	600.4	601.0	604.1	607.1	610.1
117.5°	568.9	564.9	560.9	556.9	552.9	549.0	545.0	541.1	540.4	539.7	539.1
120°	511.1	505.6	500.3	494.9	489.6	484.3	479.0	473.8	471.0	468.2	465.5
122.5°	441.7	436.2	431.0	425.5	420.2	415.0	409.8	404.6	402.6	400.5	398.7
125°	376.0	371.6	367.1	362.7	358.4	354.0	349.7	345.4	345.1	344.7	344.6
127.5°	323.1	320.3	317.5	314.9	312.2	309.6	307.1	304.4	305.5	306.4	307.3
130°	286.2	284.9	283.8	282.5	281.5	280.5	279.3	278.2	280.1	281.9	283.8
132.5°	263.9	263.6	263.4	263.1	263.0	262.9	262.8	262.7	264.9	267.1	269.2
135°	250.5	250.8	251.1	251.5	252.0	252.3	252.7	253.1	255.3	257.2	259.4
137.5°	243.5	243.9	244.6	245.0	245.7	246.3	247.0	247.6	249.3	250.8	252.4
140°	239.8	240.2	240.6	241.0	241.5	242.0	242.6	243.0	244.3	245.6	246.8
142.5°	236.4	236.7	237.2	237.6	238.1	238.5	239.0	239.5	240.5	241.3	242.2
145°	235.7	235.9	236.1	236.5	236.8	237.2	237.5	237.8	238.4	238.9	239.4
147.5°	232.9	233.0	233.1	233.3	233.6	233.8	234.0	234.2	234.5	234.7	235.2
150°	229.1	229.1	229.2	229.1	229.2	229.3	229.5	229.5	229.8	230.1	230.3
152.5°	223.4	223.4	223.4	223.3	223.4	223.5	223.5	223.6	223.9	224.2	224.4
155°	218.6	218.7	218.9	219.0	219.2	219.3	219.5	219.6	219.8	219.8	220.0
157.5°	215.5	215.6	215.8	215.9	216.1	216.2	216.3	216.5	216.7	216.8	216.8
160°	212.4	212.7	212.9	213.3	213.5	213.7	213.9	214.1	214.3	214.4	214.6
162.5°	211.8	211.9	212.1	212.2	212.3	212.4	212.5	212.7	213.0	213.2	213.4
165°	210.4	210.8	211.0	211.1	211.4	211.8	212.0	212.3	212.4	212.4	212.6
167.5°	210.9	211.0	211.3	211.6	211.9	212.1	212.4	212.5	212.6	212.7	212.9
170°	210.4	210.6	210.8	211.0	211.2	211.4	211.7	211.8	212.1	212.3	212.4
172.5°	211.6	211.7	211.9	212.1	212.3	212.4	212.6	212.8	213.0	213.2	213.3
175°	212.4	212.4	212.4	212.5	212.5	212.5	212.5	212.6	212.7	212.7	212.7
177.5°	212.4	212.5	212.6	212.7	212.8	213.0	213.1	213.2	213.2	213.2	213.2
180°	212.1	212.1	212.1	212.1	212.1	212.1	212.1	212.1	212.1	212.1	212.1



TEST NUMBER: P1444428
 CATALOG NUMBER: EHBR1-12-UNV-TA-L830-UPL18

CANDELA DISTRIBUTION (continued):

	302.5°	305°	307.5°	310°	312.5°	315°	317.5°	320°	322.5°	325°	327.5°
0°	9928.9	9928.9	9928.9	9928.9	9928.9	9928.9	9928.9	9928.9	9928.9	9928.9	9928.9
2.5°	10034.0	10034.5	10026.4	10026.0	10018.4	10017.4	10010.0	10007.8	10001.8	9999.6	9993.5
5°	10338.5	10328.6	10305.9	10292.5	10269.9	10255.0	10230.6	10214.7	10191.2	10173.5	10149.8
7.5°	10646.4	10631.1	10605.5	10584.7	10553.5	10528.6	10492.1	10462.1	10422.5	10388.2	10346.6
10°	10736.7	10734.3	10727.8	10718.3	10703.8	10687.5	10662.6	10636.6	10602.0	10564.2	10518.0
12.5°	10514.5	10538.4	10571.2	10590.6	10614.1	10624.5	10634.2	10631.7	10625.4	10606.4	10579.7
15°	9951.7	10019.0	10108.3	10177.5	10257.1	10314.9	10378.8	10418.6	10458.4	10476.7	10488.0
17.5°	9056.3	9184.0	9344.0	9476.7	9629.7	9752.7	9887.4	9988.9	10093.2	10168.0	10235.5
20°	7906.3	8091.2	8317.6	8517.6	8750.2	8952.2	9173.8	9355.6	9543.0	9689.6	9828.4
22.5°	6658.9	6878.5	7152.2	7405.7	7705.6	7975.0	8279.0	8543.5	8819.8	9050.6	9273.7
25°	5432.3	5673.1	5972.4	6255.2	6594.8	6908.2	7268.8	7598.5	7955.6	8265.5	8571.7
27.5°	4312.1	4548.7	4854.2	5155.3	5514.3	5848.2	6234.5	6597.9	7004.4	7379.3	7762.8
30°	3391.5	3592.1	3866.1	4157.8	4511.8	4851.7	5242.2	5615.8	6038.7	6448.0	6880.0
32.5°	2687.0	2839.8	3055.3	3301.8	3628.5	3952.1	4323.8	4684.6	5101.0	5514.5	5963.8
35°	2134.0	2253.2	2417.4	2609.9	2886.6	3165.4	3494.3	3822.2	4210.8	4603.2	5039.9
37.5°	1682.8	1779.5	1908.1	2052.7	2274.6	2503.4	2773.1	3045.1	3382.6	3730.4	4126.2
40°	1314.0	1392.3	1492.5	1600.3	1767.9	1944.2	2152.7	2363.6	2634.9	2919.2	3246.6
42.5°	1032.3	1090.0	1160.8	1239.5	1395.9	1489.6	1631.0	1783.5	1982.9	2189.3	2435.5
45°	829.0	868.4	917.5	970.3	1042.9	1122.3	1219.1	1320.8	1510.2	1603.1	1752.9
47.5°	692.3	718.7	750.0	783.3	826.1	872.3	929.7	988.4	1064.4	1143.1	1235.3
50°	600.2	627.1	637.9	655.1	679.9	706.3	738.7	771.0	811.8	853.1	900.6
52.5°	532.0	540.7	552.4	563.3	578.6	608.7	618.4	635.3	658.1	680.5	705.4
55°	479.7	485.4	493.0	499.6	508.9	517.8	530.6	541.9	557.1	570.5	587.1
57.5°	439.1	442.8	448.0	452.3	458.3	463.4	470.9	477.0	485.8	493.4	503.4
60°	409.6	412.1	415.5	418.4	422.2	424.8	428.5	431.4	436.0	439.9	445.5
62.5°	385.5	386.8	389.1	390.7	393.1	394.4	396.4	397.7	400.3	402.2	405.3
65°	356.6	356.9	358.4	359.1	361.0	361.8	363.3	363.9	366.1	367.5	370.2
67.5°	332.9	332.3	332.3	331.7	332.0	331.4	331.6	330.9	331.8	332.3	334.3
70°	311.3	310.3	310.1	309.0	308.7	307.7	307.4	306.5	306.4	306.1	306.9
72.5°	290.2	289.9	290.0	289.3	289.2	288.5	288.5	288.1	288.6	288.8	289.7
75°	265.9	265.9	266.5	265.8	266.0	265.5	265.7	265.1	265.4	265.3	266.2
77.5°	236.4	237.1	238.4	238.1	238.5	237.8	238.1	237.4	237.6	237.1	237.5
80°	203.2	204.7	206.4	206.4	207.1	206.5	207.2	206.5	206.8	205.9	205.7
82.5°	163.8	165.0	166.9	166.9	168.6	168.9	170.7	170.6	171.7	171.0	170.5
85°	111.9	112.8	114.5	115.3	117.0	118.0	119.7	120.5	119.1	121.5	119.7
87.5°	58.5	60.6	59.4	62.3	61.6	64.4	63.9	66.5	65.9	68.3	68.0
90°	37.7	38.8	41.4	42.5	45.6	47.1	47.2	45.5	45.6	43.9	43.9
92.5°	42.2	45.2	48.2	51.2	54.2	57.2	54.4	51.7	48.9	46.2	43.4
95°	57.6	61.9	66.3	70.7	75.0	79.4	74.7	70.1	65.4	60.7	55.9
97.5°	67.6	72.4	77.1	81.8	86.5	91.1	85.6	80.1	74.5	69.0	63.5
100°	95.9	105.0	114.1	123.1	132.3	141.3	131.0	120.6	110.4	100.0	89.7
102.5°	194.0	214.9	235.7	256.6	277.4	298.2	276.1	254.3	232.3	210.3	188.4
105°	363.2	396.6	429.9	463.2	496.5	529.9	494.4	458.7	423.1	387.6	351.9
107.5°	535.8	568.3	600.9	633.3	665.8	698.3	662.3	626.1	590.0	554.0	517.8
110°	634.9	654.4	673.9	693.4	712.9	732.5	706.2	679.8	653.4	626.9	600.6



TEST NUMBER: P1444428
 CATALOG NUMBER: EHBR1-12-UNV-TA-L830-UPL18

CANDELA DISTRIBUTION (continued):

	302.5°	305°	307.5°	310°	312.5°	315°	317.5°	320°	322.5°	325°	327.5°
112.5°	653.7	663.5	673.2	683.0	692.7	702.4	683.5	664.8	645.8	626.9	608.1
115°	613.2	616.2	619.3	622.3	625.3	628.4	615.6	602.9	590.1	577.4	564.6
117.5°	538.4	537.8	537.1	536.5	535.8	535.2	528.0	520.9	513.6	506.5	499.2
120°	462.7	460.0	457.3	454.6	451.8	449.1	446.0	442.8	439.7	436.6	433.3
122.5°	396.6	394.8	392.9	390.9	388.8	386.9	385.5	384.3	383.0	381.7	380.5
125°	344.4	344.1	343.9	343.7	343.4	343.1	342.5	341.7	341.0	340.2	339.5
127.5°	308.3	309.3	310.2	311.2	312.1	313.0	312.7	312.6	312.2	311.9	311.6
130°	285.6	287.4	289.2	291.0	292.7	294.6	294.1	293.7	293.1	292.6	292.2
132.5°	271.4	273.5	275.6	277.7	279.9	281.9	281.4	280.8	280.2	279.7	279.0
135°	261.3	263.4	265.4	267.5	269.4	271.4	270.7	270.1	269.2	268.6	268.0
137.5°	254.0	255.6	257.1	258.7	260.2	261.8	261.1	260.4	259.7	259.0	258.3
140°	248.0	249.4	250.5	251.8	253.0	254.2	253.4	252.5	251.7	250.9	250.0
142.5°	243.1	244.0	244.9	245.7	246.5	247.5	246.4	245.3	244.2	243.2	242.1
145°	240.1	240.5	241.1	241.7	242.1	242.7	241.4	240.3	239.0	237.7	236.6
147.5°	235.5	235.8	236.0	236.3	236.5	236.9	235.7	234.6	233.4	232.2	231.1
150°	230.5	231.0	231.2	231.4	231.6	231.8	230.6	229.5	228.3	227.1	226.0
152.5°	224.6	225.0	225.2	225.4	225.6	225.7	224.6	223.6	222.5	221.3	220.2
155°	220.1	220.3	220.4	220.5	220.6	220.7	219.8	218.9	218.0	217.0	216.1
157.5°	216.9	217.1	217.2	217.3	217.4	217.5	216.8	216.1	215.3	214.7	213.9
160°	214.7	214.8	214.9	215.0	215.1	215.2	214.5	213.9	213.4	212.7	212.2
162.5°	213.6	213.9	214.1	214.2	214.5	214.6	213.9	213.3	212.5	211.8	211.1
165°	212.7	212.8	212.9	213.0	213.1	213.2	212.6	212.2	211.7	211.2	210.7
167.5°	213.0	213.1	213.2	213.3	213.3	213.4	212.9	212.5	212.0	211.4	210.9
170°	212.6	212.9	213.1	213.2	213.4	213.5	213.1	212.7	212.3	212.0	211.5
172.5°	213.5	213.8	213.9	214.0	214.1	214.3	213.9	213.5	213.0	212.6	212.2
175°	212.7	212.8	212.9	212.9	212.9	212.9	212.6	212.3	212.0	211.6	211.3
177.5°	213.2	213.2	213.2	213.2	213.2	213.2	213.0	212.7	212.5	212.4	212.0
180°	212.1	212.1	212.1	212.1	212.1	212.1	212.1	212.1	212.1	212.1	212.1



TEST NUMBER: P1444428
 CATALOG NUMBER: EHBR1-12-UNV-TA-L830-UPL18

CANDELA DISTRIBUTION (continued):

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
0°	9928.9	9928.9	9928.9	9928.9	9928.9	9928.9	9928.9	9928.9	9928.9	9928.9	9928.9
2.5°	9991.3	9987.0	9984.2	9980.6	9978.5	9975.7	9973.7	9971.9	9970.5	9969.2	9968.3
5°	10131.8	10109.5	10092.2	10073.4	10058.0	10042.5	10030.7	10020.9	10014.2	10009.0	10006.0
7.5°	10310.7	10269.8	10233.5	10195.1	10160.9	10127.1	10098.1	10073.0	10054.2	10042.0	10034.7
10°	10470.4	10415.7	10361.6	10304.6	10250.6	10198.2	10149.8	10107.3	10073.6	10051.3	10038.2
12.5°	10542.0	10495.4	10440.2	10378.3	10312.1	10245.2	10179.9	10121.0	10071.6	10038.4	10019.2
15°	10479.0	10459.9	10422.3	10374.3	10311.5	10242.3	10165.6	10093.5	10027.3	9984.3	9959.4
17.5°	10273.8	10300.5	10297.7	10279.3	10234.1	10175.8	10097.7	10016.8	9933.9	9876.5	9845.1
20°	9927.6	10011.6	10054.2	10076.1	10058.3	10020.5	9949.8	9867.7	9771.1	9696.1	9650.3
22.5°	9441.1	9589.4	9681.8	9749.4	9763.7	9750.9	9688.4	9610.3	9502.5	9412.4	9344.8
25°	8814.8	9032.0	9178.1	9292.5	9337.0	9348.4	9295.3	9217.7	9097.6	8992.6	8899.7
27.5°	8077.1	8359.4	8554.3	8708.1	8777.6	8807.7	8758.8	8679.5	8537.4	8412.1	8290.8
30°	7246.7	7581.5	7816.3	8000.7	8085.3	8125.1	8073.1	7984.7	7819.4	7668.5	7515.7
32.5°	6357.7	6724.2	6980.0	7180.2	7264.1	7301.6	7233.5	7134.3	6943.2	6765.5	6587.2
35°	5427.1	5796.9	6054.9	6249.9	6320.2	6342.7	6255.8	6141.0	5929.3	5734.3	5539.9
37.5°	4477.5	4821.6	5056.1	5231.0	5274.5	5278.4	5173.6	5046.8	4824.3	4632.0	4438.6
40°	3536.1	3826.3	4015.6	4155.6	4170.7	4157.2	4043.4	3915.7	3707.6	3535.3	3365.5
42.5°	2649.3	2868.4	3003.5	3099.4	3093.7	3067.1	2962.7	2852.9	2681.2	2550.0	2416.4
45°	1889.6	2034.1	2113.0	2169.2	2151.2	2125.8	2044.6	1967.7	1850.9	1766.2	1676.4
47.5°	1312.8	1485.2	1455.2	1565.1	1470.4	1532.9	1402.8	1331.1	1269.1	1224.1	1173.3
50°	939.8	979.3	998.4	1011.5	1004.5	995.0	971.6	950.7	922.4	901.8	877.7
52.5°	725.8	745.5	756.4	764.3	762.7	759.2	749.0	739.7	726.4	717.7	707.2
55°	614.8	615.0	635.0	626.5	639.0	624.3	630.1	613.7	616.4	602.3	592.8
57.5°	510.9	518.9	522.6	526.1	525.1	524.6	520.6	518.6	514.2	512.8	509.6
60°	449.3	453.6	454.5	456.1	454.8	454.2	451.1	450.0	447.1	446.5	444.4
62.5°	407.2	409.3	409.3	409.3	407.7	405.9	402.5	400.7	398.2	397.6	396.4
65°	372.1	374.3	374.7	375.2	373.8	372.5	369.5	367.6	364.9	363.9	362.5
67.5°	335.7	338.1	338.9	340.1	339.4	339.1	337.0	336.3	334.6	334.1	332.9
70°	307.1	308.2	308.1	308.1	306.5	305.0	302.7	301.5	299.7	299.3	298.2
72.5°	290.2	290.9	290.5	289.8	287.8	285.6	282.8	280.7	278.4	277.0	275.3
75°	266.3	267.2	266.7	266.3	264.4	263.0	260.8	259.7	258.0	257.5	256.4
77.5°	237.0	237.5	236.5	236.4	234.9	234.1	232.4	232.1	230.9	230.9	229.8
80°	204.4	204.1	202.6	202.2	200.8	200.5	199.1	199.2	198.3	198.7	197.9
82.5°	168.1	167.2	165.2	164.7	163.0	162.8	162.0	162.7	162.1	163.0	162.4
85°	120.6	120.7	119.9	119.9	119.4	119.5	119.5	120.0	120.1	120.9	120.8
87.5°	67.2	68.2	68.0	68.8	68.8	69.8	70.2	71.6	71.8	73.2	73.2
90°	42.2	42.5	40.8	41.1	40.3	41.2	40.7	41.7	40.8	41.6	40.6
92.5°	40.7	37.8	35.1	32.3	30.9	29.4	28.3	26.7	25.4	23.9	22.6
95°	51.2	46.6	41.9	37.2	35.6	34.0	32.4	30.8	29.1	27.5	25.9
97.5°	58.0	52.4	46.8	41.3	39.9	38.5	37.1	35.7	34.3	32.9	31.6
100°	79.3	69.0	58.6	48.3	47.1	46.0	44.8	43.7	42.4	41.2	40.0
102.5°	166.5	144.4	122.5	100.5	96.4	92.2	88.1	83.8	79.6	75.5	71.4
105°	316.4	280.8	245.1	209.5	198.2	186.9	175.6	164.3	153.0	141.6	130.4
107.5°	481.7	445.5	409.4	373.3	352.4	331.5	310.5	289.6	268.7	247.9	226.9
110°	574.2	547.8	521.4	495.0	478.2	461.3	444.5	427.6	410.8	394.0	377.1



TEST NUMBER: P1444428
 CATALOG NUMBER: EHBR1-12-UNV-TA-L830-UPL18

CANDELA DISTRIBUTION (continued):

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
112.5°	589.2	570.2	551.3	532.3	524.7	517.1	509.5	501.8	494.1	486.4	478.8
115°	551.7	539.0	526.1	513.2	510.5	507.9	505.2	502.4	499.6	496.8	494.0
117.5°	492.1	484.7	477.5	470.3	470.6	471.1	471.4	471.9	472.2	472.6	472.9
120°	430.2	427.1	423.9	420.8	423.0	425.3	427.5	429.7	431.9	434.1	436.1
122.5°	379.2	377.9	376.6	375.2	377.9	380.7	383.3	385.9	388.6	391.2	393.7
125°	338.8	338.0	337.2	336.5	339.2	342.0	344.7	347.2	350.0	352.6	355.1
127.5°	311.4	311.0	310.8	310.4	312.4	314.2	316.1	317.9	319.7	321.4	323.3
130°	291.7	291.1	290.7	290.2	291.9	293.6	295.3	296.8	298.5	300.0	301.5
132.5°	278.5	277.8	277.3	276.7	277.8	279.0	280.3	281.2	282.4	283.4	284.3
135°	267.3	266.5	265.8	265.2	266.2	267.3	268.4	269.3	270.3	271.2	272.1
137.5°	257.7	256.8	256.2	255.4	256.5	257.4	258.3	259.2	260.0	260.9	261.6
140°	249.2	248.3	247.5	246.6	247.5	248.3	249.2	250.0	250.7	251.3	252.1
142.5°	241.0	239.8	239.0	237.7	238.4	239.0	239.5	240.0	240.6	241.0	241.5
145°	235.4	234.1	232.9	231.6	232.0	232.5	233.0	233.4	233.8	234.2	234.5
147.5°	230.0	228.7	227.6	226.4	226.8	227.1	227.4	227.6	228.0	228.2	228.5
150°	224.7	223.5	222.4	221.1	221.3	221.6	221.9	222.2	222.4	222.6	222.8
152.5°	219.1	218.0	216.8	215.6	215.8	216.1	216.3	216.5	216.8	216.9	217.0
155°	215.2	214.1	213.2	212.3	212.4	212.6	212.9	213.0	213.1	213.3	213.5
157.5°	213.2	212.4	211.7	210.9	210.9	210.9	211.0	210.9	211.1	211.1	211.1
160°	211.5	210.9	210.2	209.4	209.4	209.5	209.6	209.6	209.6	209.5	209.6
162.5°	210.4	209.6	208.9	208.1	208.1	208.1	208.2	208.1	208.2	208.2	208.1
165°	210.1	209.6	209.1	208.4	208.4	208.3	208.3	208.1	208.0	207.9	207.8
167.5°	210.4	209.8	209.4	208.7	208.8	208.8	208.8	208.8	209.0	208.9	208.9
170°	211.1	210.6	210.2	209.7	209.6	209.6	209.5	209.4	209.4	209.3	209.2
172.5°	211.8	211.3	210.9	210.4	210.4	210.3	210.3	210.2	210.1	210.0	210.0
175°	210.9	210.7	210.2	209.9	209.8	209.8	209.8	209.7	209.6	209.6	209.5
177.5°	211.8	211.6	211.3	211.1	211.0	211.0	211.0	210.9	210.9	210.9	210.9
180°	212.1	212.1	212.1	212.1	212.1	212.1	212.1	212.1	212.1	212.1	212.1



TEST NUMBER: P1444428
 CATALOG NUMBER: EHBR1-12-UNV-TA-L830-UPL18

CANDELA DISTRIBUTION (continued):

	357.5°	360°
0°	9928.9	9928.9
2.5°	9967.4	9966.9
5°	10004.4	10003.9
7.5°	10032.6	10032.4
10°	10036.0	10037.7
12.5°	10015.9	10017.4
15°	9957.5	9960.2
17.5°	9845.7	9849.2
20°	9653.1	9656.8
22.5°	9341.1	9342.7
25°	8887.7	8881.3
27.5°	8269.5	8258.4
30°	7483.6	7472.9
32.5°	6546.7	6539.9
35°	5491.9	5487.7
37.5°	4381.5	4372.8
40°	3303.4	3278.3
42.5°	2357.9	2313.9
45°	1629.5	1577.3
47.5°	1137.5	1105.3
50°	862.2	851.8
52.5°	702.6	700.2
55°	592.8	591.7
57.5°	510.3	509.9
60°	445.5	445.4
62.5°	397.2	397.4
65°	363.2	363.3
67.5°	333.2	333.0
70°	298.6	298.3
72.5°	274.7	274.4
75°	256.4	256.1
77.5°	230.1	229.8
80°	198.4	197.9
82.5°	163.2	162.6
85°	121.8	121.8
87.5°	74.5	74.5
90°	41.2	40.0
92.5°	21.3	20.0
95°	24.4	22.8
97.5°	30.2	28.8
100°	38.9	37.7
102.5°	67.2	63.0
105°	119.1	107.7
107.5°	206.0	185.1
110°	360.3	343.4



TEST NUMBER: P1444428
CATALOG NUMBER: EHBR1-12-UNV-TA-L830-UPL18

CANDELA DISTRIBUTION (continued):

	357.5°	360°
112.5°	471.1	463.4
115°	491.3	488.5
117.5°	473.2	473.5
120°	438.2	440.3
122.5°	396.3	398.8
125°	357.6	360.2
127.5°	324.9	326.4
130°	302.8	304.3
132.5°	285.3	286.1
135°	272.9	273.6
137.5°	262.3	262.9
140°	252.5	253.2
142.5°	241.9	242.2
145°	234.8	235.0
147.5°	228.5	228.7
150°	222.9	223.0
152.5°	217.2	217.3
155°	213.5	213.6
157.5°	211.0	210.9
160°	209.5	209.5
162.5°	208.1	208.0
165°	207.6	207.5
167.5°	208.8	208.8
170°	209.1	209.0
172.5°	209.9	209.8
175°	209.5	209.5
177.5°	210.9	210.9
180°	212.1	212.1

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

Report Prepared for

Cooper Lighting Solutions

Metalux

Report Number: SP1-2506-472-2

Test Date: 07/31/2025

Luminaire Tested: EHBR-60-L830-N

Data in this report applies to families of products including EHBR-60-L830-N

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2506-472-2
 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-L830-N**
 Description: Elevate Round Highbay at, 60000 lumens, 3000K 80CRI LEDs with N lens

Spectral Parameters

CCT (K): 2983
 CIE u': 0.2516
 CIE v': 0.5201
 Duv: -0.0012
 CIE x: 0.4364
 CIE y: 0.4010
 CIE z: 0.1626
 Peak Wavelength (nm): 630
 Dominant Wavelength (nm): 583
 Purity: 51.34918
 Rf: 81.2
 Rg: 101.5

CRI (Ra):	83.4		
R1:	84.0	R9:	29.4
R2:	87.5	R10:	68.6
R3:	88.9	R11:	82.2
R4:	83.8	R12:	61.6
R5:	81.9	R13:	83.9
R6:	83.1	R14:	92.5
R7:	87.1	R15:	79.8
R8:	70.9		



Test Conditions

Stabilization Time: 38M
 Operation Time: 1H 38M
 Sphere Temperature (°C): 25.0

REPORT NUMBER: SP1-2506-472-2

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

REPORT NUMBER: SP1-2506-472-2

CIE 1931 Chromaticity Diagram



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

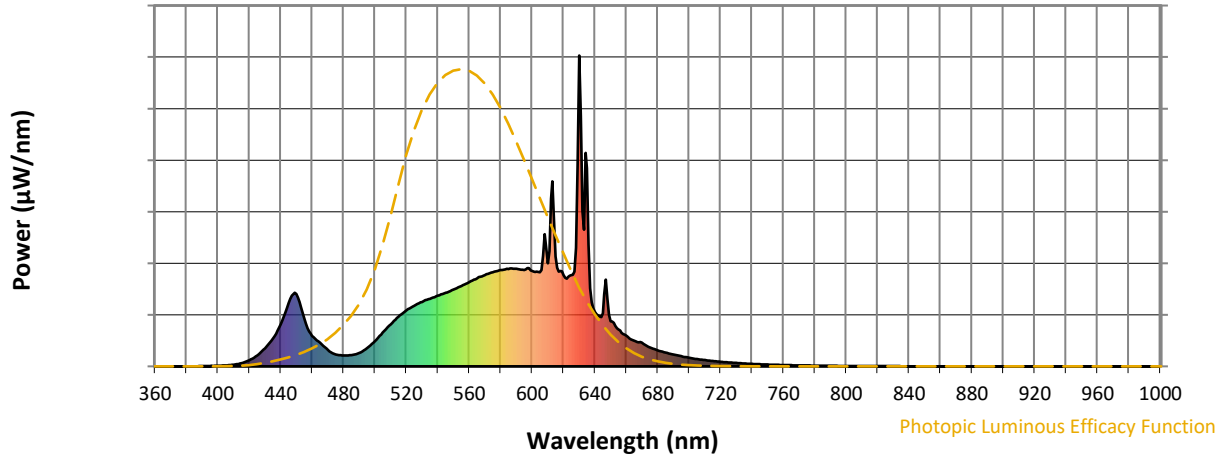


CCT = 2983K
 CIE x = 0.4364
 CIE y = 0.4010
 Duv = -0.0012

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2506-472-2

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	43	NR	620	294	NR	750	6	NR	880	0	NR
365	0	NR	495	59	NR	625	294	NR	755	5	NR	885	0	NR
370	0	NR	500	81	NR	630	1000	NR	760	4	NR	890	0	NR
375	0	NR	505	109	NR	635	637	NR	765	4	NR	895	0	NR
380	0	NR	510	135	NR	640	175	NR	770	3	NR	900	0	NR
385	0	NR	515	160	NR	645	171	NR	775	3	NR	905	0	NR
390	1	NR	520	180	NR	650	146	NR	780	2	NR	910	0	NR
395	1	NR	525	195	NR	655	119	NR	785	2	NR	915	0	NR
400	2	NR	530	207	NR	660	99	NR	790	2	NR	920	0	NR
405	3	NR	535	218	NR	665	82	NR	795	2	NR	925	0	NR
410	5	NR	540	227	NR	670	76	NR	800	1	NR	930	0	NR
415	10	NR	545	237	NR	675	61	NR	805	1	NR	935	0	NR
420	20	NR	550	247	NR	680	52	NR	810	1	NR	940	0	NR
425	35	NR	555	259	NR	685	44	NR	815	1	NR	945	0	NR
430	58	NR	560	271	NR	690	38	NR	820	1	NR	950	0	NR
435	90	NR	565	283	NR	695	33	NR	825	1	NR	955	0	NR
440	135	NR	570	293	NR	700	27	NR	830	1	NR	960	0	NR
445	204	NR	575	303	NR	705	24	NR	835	1	NR	965	0	NR
450	233	NR	580	310	NR	710	20	NR	840	0	NR	970	0	NR
455	153	NR	585	313	NR	715	17	NR	845	0	NR	975	0	NR
460	98	NR	590	314	NR	720	15	NR	850	0	NR	980	0	NR
465	76	NR	595	310	NR	725	13	NR	855	0	NR	985	0	NR
470	53	NR	600	307	NR	730	11	NR	860	0	NR	990	0	NR
475	39	NR	605	303	NR	735	9	NR	865	0	NR	995	0	NR
480	35	NR	610	331	NR	740	8	NR	870	0	NR	1000	0	NR
485	36	NR	615	353	NR	745	7	NR	875	0	NR			

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Scotopic Flux vs. Wavelength



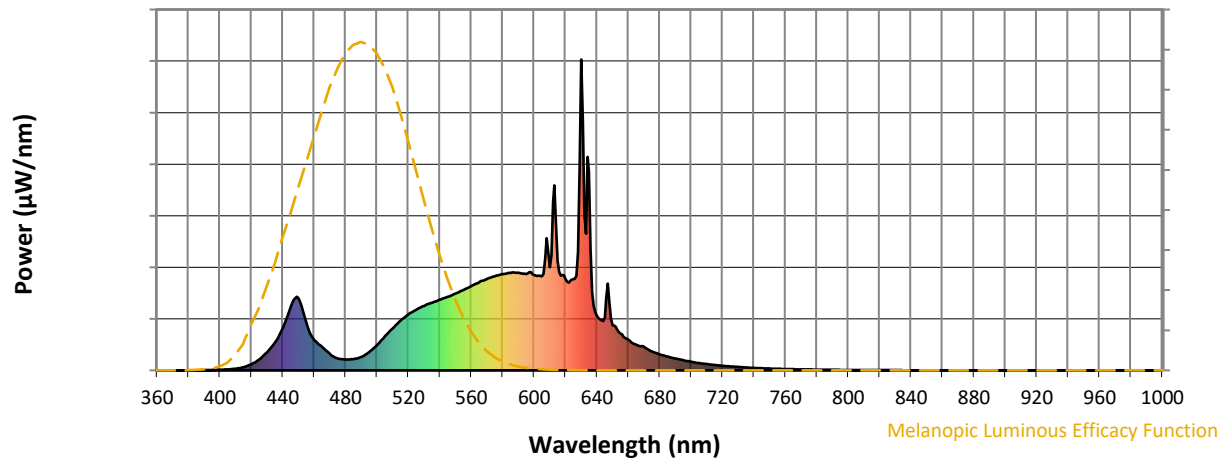
Scotopic Lumens: NR

S/P: 1.27

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	43	NR	620	294	NR	750	6	NR	880	0	NR
365	0	NR	495	59	NR	625	294	NR	755	5	NR	885	0	NR
370	0	NR	500	81	NR	630	1000	NR	760	4	NR	890	0	NR
375	0	NR	505	109	NR	635	637	NR	765	4	NR	895	0	NR
380	0	NR	510	135	NR	640	175	NR	770	3	NR	900	0	NR
385	0	NR	515	160	NR	645	171	NR	775	3	NR	905	0	NR
390	1	NR	520	180	NR	650	146	NR	780	2	NR	910	0	NR
395	1	NR	525	195	NR	655	119	NR	785	2	NR	915	0	NR
400	2	NR	530	207	NR	660	99	NR	790	2	NR	920	0	NR
405	3	NR	535	218	NR	665	82	NR	795	2	NR	925	0	NR
410	5	NR	540	227	NR	670	76	NR	800	1	NR	930	0	NR
415	10	NR	545	237	NR	675	61	NR	805	1	NR	935	0	NR
420	20	NR	550	247	NR	680	52	NR	810	1	NR	940	0	NR
425	35	NR	555	259	NR	685	44	NR	815	1	NR	945	0	NR
430	58	NR	560	271	NR	690	38	NR	820	1	NR	950	0	NR
435	90	NR	565	283	NR	695	33	NR	825	1	NR	955	0	NR
440	135	NR	570	293	NR	700	27	NR	830	1	NR	960	0	NR
445	204	NR	575	303	NR	705	24	NR	835	1	NR	965	0	NR
450	233	NR	580	310	NR	710	20	NR	840	0	NR	970	0	NR
455	153	NR	585	313	NR	715	17	NR	845	0	NR	975	0	NR
460	98	NR	590	314	NR	720	15	NR	850	0	NR	980	0	NR
465	76	NR	595	310	NR	725	13	NR	855	0	NR	985	0	NR
470	53	NR	600	307	NR	730	11	NR	860	0	NR	990	0	NR
475	39	NR	605	303	NR	735	9	NR	865	0	NR	995	0	NR
480	35	NR	610	331	NR	740	8	NR	870	0	NR	1000	0	NR
485	36	NR	615	353	NR	745	7	NR	875	0	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.34

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	43	NR	620	294	NR	750	6	NR	880	0	NR
365	0	NR	495	59	NR	625	294	NR	755	5	NR	885	0	NR
370	0	NR	500	81	NR	630	1000	NR	760	4	NR	890	0	NR
375	0	NR	505	109	NR	635	637	NR	765	4	NR	895	0	NR
380	0	NR	510	135	NR	640	175	NR	770	3	NR	900	0	NR
385	0	NR	515	160	NR	645	171	NR	775	3	NR	905	0	NR
390	1	NR	520	180	NR	650	146	NR	780	2	NR	910	0	NR
395	1	NR	525	195	NR	655	119	NR	785	2	NR	915	0	NR
400	2	NR	530	207	NR	660	99	NR	790	2	NR	920	0	NR
405	3	NR	535	218	NR	665	82	NR	795	2	NR	925	0	NR
410	5	NR	540	227	NR	670	76	NR	800	1	NR	930	0	NR
415	10	NR	545	237	NR	675	61	NR	805	1	NR	935	0	NR
420	20	NR	550	247	NR	680	52	NR	810	1	NR	940	0	NR
425	35	NR	555	259	NR	685	44	NR	815	1	NR	945	0	NR
430	58	NR	560	271	NR	690	38	NR	820	1	NR	950	0	NR
435	90	NR	565	283	NR	695	33	NR	825	1	NR	955	0	NR
440	135	NR	570	293	NR	700	27	NR	830	1	NR	960	0	NR
445	204	NR	575	303	NR	705	24	NR	835	1	NR	965	0	NR
450	233	NR	580	310	NR	710	20	NR	840	0	NR	970	0	NR
455	153	NR	585	313	NR	715	17	NR	845	0	NR	975	0	NR
460	98	NR	590	314	NR	720	15	NR	850	0	NR	980	0	NR
465	76	NR	595	310	NR	725	13	NR	855	0	NR	985	0	NR
470	53	NR	600	307	NR	730	11	NR	860	0	NR	990	0	NR
475	39	NR	605	303	NR	735	9	NR	865	0	NR	995	0	NR
480	35	NR	610	331	NR	740	8	NR	870	0	NR	1000	0	NR
485	36	NR	615	353	NR	745	7	NR	875	0	NR			

Summary

$R_f = 81.2$
 $R_g = 101.5$
 CIE $R_a = 83.4$
 $R_9 = 29.4$



Color Vector Graphics

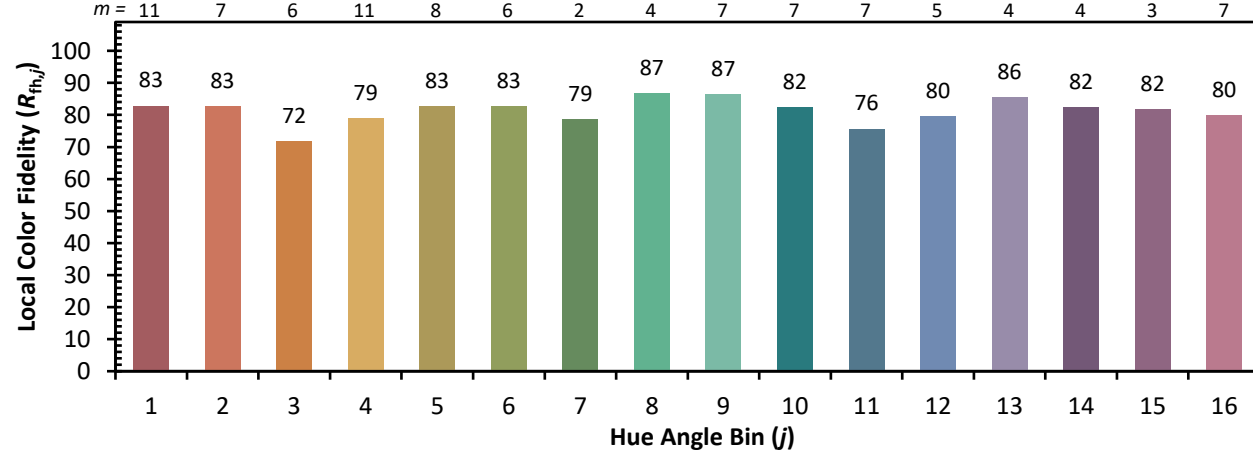


Individual Sample Fidelity Index ($R_{f,i}$)

CES01 = 86	CES26 = 71	CES51 = 89	CES76 = 65
CES02 = 63	CES27 = 89	CES52 = 89	CES77 = 82
CES03 = 31	CES28 = 86	CES53 = 80	CES78 = 67
CES04 = 70	CES29 = 68	CES54 = 92	CES79 = 89
CES05 = 50	CES30 = 77	CES55 = 90	CES80 = 85
CES06 = 51	CES31 = 70	CES56 = 81	CES81 = 75
CES07 = 43	CES32 = 64	CES57 = 79	CES82 = 93
CES08 = 41	CES33 = 74	CES58 = 81	CES83 = 89
CES09 = 29	CES34 = 76	CES59 = 92	CES84 = 91
CES10 = 76	CES35 = 87	CES60 = 96	CES85 = 81
CES11 = 59	CES36 = 99	CES61 = 91	CES86 = 74
CES12 = 65	CES37 = 81	CES62 = 93	CES87 = 83
CES13 = 44	CES38 = 83	CES63 = 79	CES88 = 86
CES14 = 74	CES39 = 94	CES64 = 81	CES89 = 74
CES15 = 72	CES40 = 89	CES65 = 78	CES90 = 85
CES16 = 48	CES41 = 88	CES66 = 76	CES91 = 87
CES17 = 50	CES42 = 80	CES67 = 74	CES92 = 73
CES18 = 57	CES43 = 75	CES68 = 79	CES93 = 84
CES19 = 72	CES44 = 99	CES69 = 83	CES94 = 64
CES20 = 67	CES45 = 83	CES70 = 72	CES95 = 80
CES21 = 87	CES46 = 82	CES71 = 70	CES96 = 86
CES22 = 79	CES47 = 79	CES72 = 90	CES97 = 85
CES23 = 92	CES48 = 78	CES73 = 65	CES98 = 83
CES24 = 91	CES49 = 79	CES74 = 94	CES99 = 82
CES25 = 72	CES50 = 88	CES75 = 70	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)