

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: P1444500

Luminaire Tested: EHBR1-12-UNV-TA-L835-UPL18

Issue Date: 5/1/2026

Test Information

Test Method: LM-79-2019
Report Number: P1444500
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-L835-UPL18
Description: Elevate Round Highbay at, 12000 lumens, 3500K 80CRI LEDs with TA lens
Light Source: -
Ballast/Driver: -

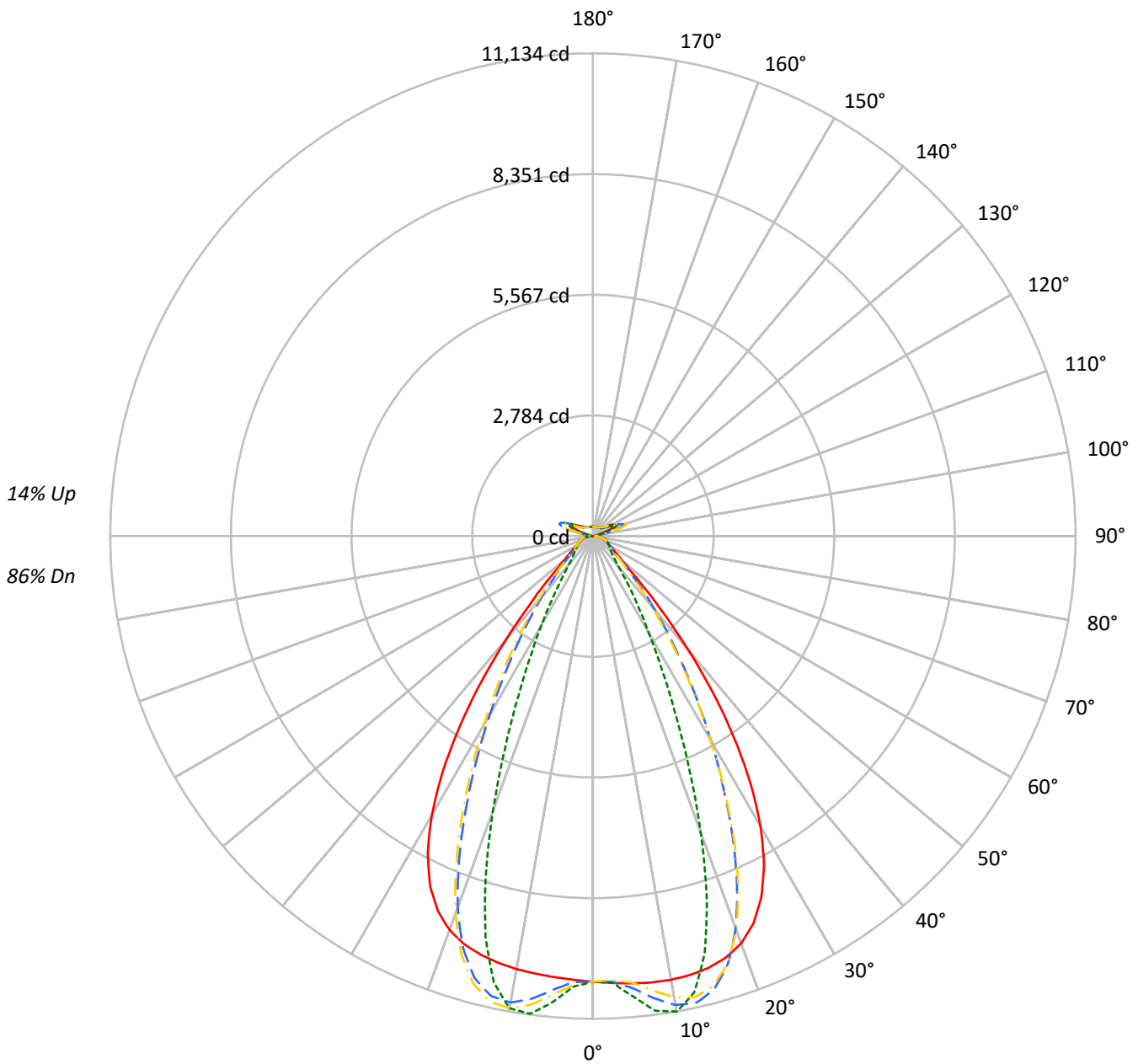
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13688.1 lumens
Efficiency: N/A
Efficacy: 178.7 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

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	48266	48266	48266	48266
5°	48499	49913	47820	50567
10°	48904	52405	47731	52059
15°	49144	47505	47648	45592
20°	48636	35390	47044	32744
25°	46036	22382	44514	20308
30°	40215	13449	38658	12292
35°	30950	8440	29170	7476
40°	19579	5294	17913	4975
45°	10091	4124	9924	4056
50°	5917	3669	5735	3611
55°	4532	3470	4365	3439
60°	3836	3545	3673	3500
65°	3602	3703	3464	3576
70°	3519	3876	3344	3730
75°	3763	4111	3559	3929
80°	3895	4553	3530	4155
85°	3669	4393	2962	3762

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 25°
 Vertical Angle: 45°
 Luminance: 15444 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1012.9	7.4
10°-20°	2849.4	20.8
20°-30°	3245.2	23.7
30°-40°	2332.5	17.0
40°-50°	1075.8	7.9
50°-60°	514.8	3.8
60°-70°	375.6	2.7
70°-80°	285.4	2.1
80°-90°	133.0	1.0
90°-100°	51.3	0.4
100°-110°	314.9	2.3
110°-120°	582.1	4.3
120°-130°	350.9	2.6
130°-140°	218.8	1.6
140°-150°	156.9	1.1
150°-160°	105.8	0.8
160°-170°	62.1	0.5
170°-180°	20.9	0.2
0°-30°	7107.5	51.9
0°-40°	9440.1	69.0
0°-60°	11030.6	80.6
0°-90°	11824.6	86.4
90°-120°	948.2	6.9
90°-150°	1674.8	12.2
90°-180°	1864.0	13.6
0°-180°	13688.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	10278	10278	10278	10278	10278	
5°	10355	10657	10210	10797	10355	990
15°	10310	9966	9996	9565	10310	2905
25°	9193	4470	8890	4055	9193	4168
35°	5680	1549	5354	1372	5680	3486
45°	1633	667	1606	656	1633	1389
55°	612	469	590	465	612	565
65°	376	386	362	373	376	376
75°	265	290	251	277	265	276
85°	126	151	102	129	126	118
90°	41	50	17	19	41	25
95°	24	26	24	27	24	23
105°	112	145	74	146	112	148
115°	506	618	530	618	506	466
125°	373	398	423	399	373	340
135°	283	258	306	259	283	221
145°	243	242	260	244	243	154
155°	221	225	237	226	221	103
165°	215	216	223	217	215	61
175°	217	220	221	220	217	21
180°	220	220	220	220	220	



TEST NUMBER: P1444500
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CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
0°	10277.8	10277.8	10277.8	10277.8	10277.8	10277.8	10277.8	10277.8	10277.8	10277.8	10277.8
2.5°	10317.1	10316.3	10316.1	10315.4	10315.2	10315.2	10314.8	10313.9	10313.5	10312.3	10310.9
5°	10355.4	10354.9	10355.2	10355.3	10354.5	10352.9	10350.4	10347.3	10343.4	10339.7	10336.5
7.5°	10384.9	10385.7	10386.6	10386.4	10384.1	10380.4	10375.2	10372.3	10374.1	10379.7	10392.5
10°	10390.4	10394.8	10396.5	10396.0	10391.5	10388.2	10389.5	10400.3	10422.1	10451.0	10490.5
12.5°	10369.3	10374.7	10374.5	10372.7	10368.3	10372.8	10388.6	10421.0	10467.4	10524.5	10591.4
15°	10310.2	10317.1	10315.2	10312.9	10310.0	10324.4	10355.9	10412.3	10484.0	10564.4	10646.7
17.5°	10195.3	10203.8	10199.6	10197.0	10194.6	10221.7	10275.9	10358.4	10448.7	10539.7	10617.7
20°	9996.1	10001.7	9991.9	9987.4	9991.3	10044.5	10124.3	10229.6	10324.8	10410.8	10464.1
22.5°	9671.0	9678.1	9659.6	9657.5	9680.2	9762.0	9862.9	9980.6	10070.1	10138.3	10158.8
25°	9193.4	9200.2	9178.4	9191.4	9230.1	9341.6	9461.7	9587.6	9664.0	9714.5	9700.6
27.5°	8548.6	8555.0	8534.2	8560.9	8622.0	8768.4	8909.8	9046.4	9114.4	9149.8	9105.0
30°	7735.4	7748.6	7724.1	7761.3	7854.5	8044.7	8206.8	8359.9	8427.7	8454.7	8384.9
32.5°	6769.7	6788.4	6761.5	6816.8	6946.8	7175.3	7359.3	7530.5	7605.5	7636.2	7557.4
35°	5680.5	5707.3	5676.4	5759.4	5919.8	6174.3	6378.1	6569.1	6658.0	6701.5	6622.1
37.5°	4526.5	4552.1	4535.3	4646.1	4822.3	5085.9	5294.0	5500.1	5600.5	5665.9	5603.2
40°	3393.5	3416.9	3429.5	3556.4	3722.1	3970.6	4170.3	4374.2	4486.6	4568.7	4530.1
42.5°	2395.2	2418.7	2461.9	2584.2	2722.3	2928.1	3099.2	3282.3	3389.6	3477.2	3462.2
45°	1632.7	1660.1	1714.1	1814.3	1914.2	2061.8	2187.5	2329.9	2417.6	2497.7	2498.7
47.5°	1144.2	1163.4	1211.6	1280.0	1345.2	1530.0	1537.5	1607.5	1666.4	1726.4	1734.2
50°	881.8	893.3	918.9	957.1	994.0	1042.0	1085.9	1136.6	1172.9	1205.7	1213.6
52.5°	724.8	732.1	745.2	765.8	787.1	813.3	836.8	864.6	884.4	901.9	905.6
55°	612.5	618.6	638.0	642.0	666.4	671.2	681.6	698.5	710.1	720.5	723.2
57.5°	527.9	532.3	536.4	545.2	552.8	563.7	572.6	584.7	592.0	599.5	600.2
60°	461.1	464.3	467.2	473.3	478.4	486.1	492.2	500.4	505.6	511.3	512.0
62.5°	411.3	413.6	415.6	419.7	423.2	429.2	434.0	440.9	445.7	450.1	451.1
65°	376.0	377.7	378.9	381.9	385.1	390.2	394.5	400.2	403.7	407.1	407.8
67.5°	344.7	346.3	347.6	350.3	352.6	356.3	359.2	363.5	366.1	368.8	368.9
70°	308.8	310.3	311.2	313.9	315.6	318.8	321.2	325.0	327.7	330.7	331.5
72.5°	284.0	284.9	286.1	288.6	291.0	294.5	297.6	301.6	304.8	308.0	309.3
75°	265.1	266.1	266.9	269.0	270.7	273.6	276.0	279.5	282.5	285.8	287.5
77.5°	237.8	239.0	239.8	241.7	243.3	246.0	247.7	251.0	253.4	256.5	257.9
80°	204.9	205.9	206.5	208.4	209.5	212.2	213.8	217.0	218.9	221.9	223.8
82.5°	168.3	169.4	169.7	171.5	172.1	174.2	175.5	178.7	181.1	185.1	187.8
85°	126.1	126.4	127.0	126.5	129.2	129.3	132.2	132.7	136.5	137.5	141.9
87.5°	77.1	78.2	78.7	80.5	81.3	83.0	83.6	85.4	86.5	88.6	89.6
90°	41.4	43.8	45.0	47.6	48.8	51.3	52.4	55.0	56.1	58.9	60.9
92.5°	20.7	22.1	23.5	24.9	26.4	28.1	29.7	31.1	32.6	34.2	37.2
95°	23.6	25.2	26.9	28.5	30.2	31.9	33.5	35.2	36.8	38.5	43.3
97.5°	29.8	31.2	32.7	34.0	35.5	36.9	38.4	39.8	41.2	42.7	48.4
100°	39.0	40.2	41.4	42.7	43.8	45.1	46.3	47.5	48.7	49.9	60.6
102.5°	65.3	69.5	73.9	78.2	82.4	86.8	91.0	95.3	99.7	103.9	126.6
105°	111.5	123.1	135.0	146.5	158.2	170.0	181.7	193.2	205.0	216.7	253.6
107.5°	191.6	213.1	234.7	256.5	278.1	299.7	321.3	343.1	364.6	386.2	423.6
110°	355.5	372.8	390.3	407.6	425.1	442.4	459.9	477.2	494.6	512.1	539.3



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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°	479.7	487.5	495.5	503.3	511.3	519.1	527.0	534.8	542.8	550.6	570.2
115°	505.7	508.5	511.2	514.0	516.9	519.6	522.4	525.2	528.0	530.7	544.0
117.5°	490.1	489.7	489.3	488.9	488.3	487.9	487.4	486.9	486.5	486.0	493.5
120°	455.8	453.5	451.2	448.8	446.5	444.1	441.8	439.4	437.0	434.5	437.8
122.5°	412.8	410.1	407.2	404.4	401.6	398.7	395.9	393.0	390.1	387.3	388.6
125°	372.8	370.0	367.2	364.4	361.5	358.6	355.8	352.8	349.8	346.9	347.7
127.5°	337.9	336.0	334.1	332.0	330.1	328.0	326.0	323.9	321.9	319.8	320.1
130°	315.0	313.3	311.5	309.8	308.0	306.1	304.3	302.4	300.6	298.6	299.1
132.5°	296.1	295.1	293.8	292.5	291.3	289.8	288.7	287.2	285.8	284.6	285.1
135°	283.2	282.2	281.1	279.9	278.8	277.5	276.2	275.0	273.8	272.5	273.1
137.5°	272.2	271.2	270.2	269.2	268.1	266.9	265.9	264.7	263.5	262.4	263.0
140°	262.1	261.2	260.2	259.3	258.3	257.4	256.4	255.3	254.2	253.2	253.9
142.5°	250.7	250.1	249.5	248.6	248.0	247.2	246.4	245.5	244.7	243.9	244.9
145°	243.3	242.8	242.2	241.6	241.0	240.3	239.6	238.9	238.1	237.6	238.6
147.5°	236.7	236.3	235.9	235.3	234.9	234.4	233.9	233.2	232.7	232.1	233.2
150°	230.9	230.5	230.2	229.6	229.1	228.6	228.2	227.6	227.1	226.5	227.7
152.5°	225.0	224.6	224.2	223.7	223.3	222.7	222.3	221.8	221.2	220.7	221.7
155°	221.1	220.7	220.3	219.8	219.4	218.9	218.5	218.0	217.5	217.0	217.8
157.5°	218.4	218.1	217.9	217.5	217.2	216.7	216.4	216.0	215.7	215.4	215.9
160°	216.9	216.6	216.3	215.9	215.5	215.3	215.0	214.5	214.2	213.9	214.4
162.5°	215.4	215.1	214.8	214.5	214.2	213.7	213.4	213.1	212.8	212.4	213.0
165°	214.8	214.6	214.4	214.2	214.0	213.8	213.6	213.4	213.2	213.0	213.4
167.5°	216.1	215.8	215.6	215.4	215.1	214.8	214.5	214.2	214.0	213.6	214.1
170°	216.3	216.1	216.0	215.9	215.7	215.6	215.5	215.4	215.2	215.1	215.4
172.5°	217.2	217.0	216.9	216.9	216.7	216.6	216.5	216.4	216.3	216.2	216.6
175°	216.9	216.7	216.7	216.6	216.5	216.5	216.4	216.3	216.3	216.2	216.4
177.5°	218.3	218.2	218.2	218.2	218.2	218.2	218.1	218.0	218.0	218.0	218.2
180°	219.5	219.5	219.5	219.5	219.5	219.5	219.5	219.5	219.5	219.5	219.5



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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°	10277.8	10277.8	10277.8	10277.8	10277.8	10277.8	10277.8	10277.8	10277.8	10277.8	10277.8
2.5°	10310.0	10308.7	10307.0	10304.8	10303.0	10300.8	10295.6	10294.1	10295.8	10297.0	10299.3
5°	10334.4	10335.2	10335.5	10340.1	10344.2	10354.3	10433.3	10464.7	10489.1	10504.5	10527.9
7.5°	10408.3	10432.0	10455.6	10487.2	10514.5	10551.3	10689.7	10748.5	10790.4	10820.5	10857.5
10°	10533.5	10585.3	10634.0	10690.9	10740.0	10796.0	10924.8	10982.2	11018.5	11044.8	11069.4
12.5°	10659.5	10731.5	10796.5	10859.9	10913.0	10961.7	11006.9	11027.0	11028.7	11029.5	11016.4
15°	10725.3	10794.0	10851.3	10893.2	10924.4	10938.2	10860.2	10819.3	10767.6	10725.1	10655.0
17.5°	10683.8	10725.1	10749.8	10747.4	10734.5	10691.3	10470.5	10349.0	10228.4	10119.7	9977.3
20°	10499.5	10496.3	10474.8	10413.8	10340.4	10226.1	9847.5	9629.0	9417.8	9232.3	9007.3
22.5°	10156.8	10102.9	10027.6	9896.1	9750.0	9550.5	9007.9	8686.4	8392.5	8132.7	7841.7
25°	9660.1	9549.1	9410.5	9201.7	8974.7	8683.5	8014.8	7615.1	7262.1	6955.9	6620.2
27.5°	9024.4	8857.3	8654.1	8365.1	8057.6	7684.6	6943.2	6502.1	6123.1	5794.8	5437.5
30°	8271.9	8054.5	7792.2	7433.5	7062.5	6639.5	5887.5	5440.7	5057.2	4719.4	4361.8
32.5°	7421.6	7166.9	6859.4	6456.9	6055.8	5620.8	4894.5	4462.1	4095.7	3770.8	3447.1
35°	6483.6	6210.5	5885.2	5474.7	5075.9	4653.0	3986.6	3596.7	3273.1	2985.9	2724.6
37.5°	5477.5	5209.4	4900.1	4513.2	4143.5	3760.2	3185.2	2858.4	2586.9	2348.6	2146.8
40°	4431.4	4196.8	3929.2	3594.7	3279.2	2960.0	2487.9	2228.6	2014.3	1832.6	1681.3
42.5°	3398.0	3216.2	3011.1	2746.7	2505.3	2262.2	1899.0	1706.8	1548.1	1417.2	1310.3
45°	2465.5	2343.8	2206.2	2022.4	1855.4	1685.8	1427.3	1292.2	1188.9	1104.5	1033.1
47.5°	1723.5	1652.9	1648.6	1478.8	1356.3	1252.7	1086.1	1000.7	937.4	886.3	841.1
50°	1210.4	1176.2	1133.8	1073.2	1016.4	957.8	856.3	804.7	767.6	736.6	708.1
52.5°	904.8	887.1	864.5	832.3	801.6	768.6	704.3	671.6	659.9	631.0	608.4
55°	722.7	712.6	699.7	680.8	662.1	654.6	599.5	575.2	559.7	548.3	536.2
57.5°	600.3	592.7	585.1	572.3	561.4	548.3	519.1	506.6	497.4	490.7	482.3
60°	512.1	507.5	503.2	495.8	489.9	482.8	464.3	457.2	452.4	448.4	443.0
62.5°	451.9	449.6	447.4	443.4	440.4	436.6	423.9	420.5	418.1	416.1	412.9
65°	408.6	406.9	405.7	403.0	401.5	399.3	388.3	386.1	384.6	383.9	381.9
67.5°	369.1	367.4	366.6	364.7	364.1	362.6	353.7	352.5	352.0	352.3	351.6
70°	332.3	331.5	331.9	331.6	332.5	332.7	327.3	327.2	327.8	329.0	329.1
72.5°	310.2	310.2	310.6	310.8	311.5	311.9	307.5	307.3	307.5	308.3	308.3
75°	289.1	289.5	290.6	291.0	292.0	292.1	286.2	285.6	285.6	286.3	286.1
77.5°	260.1	261.3	263.4	264.6	266.5	266.7	260.1	259.3	259.4	260.1	259.5
80°	227.0	229.4	232.9	235.3	238.1	239.2	232.4	230.8	229.2	229.0	227.7
82.5°	192.0	194.9	199.1	201.2	204.2	204.9	193.4	191.2	189.9	190.0	188.8
85°	146.5	148.7	152.5	153.8	155.6	155.4	142.3	136.7	138.3	135.9	137.8
87.5°	91.9	93.2	95.6	95.9	96.8	96.6	83.4	80.8	80.0	80.1	79.1
90°	64.3	66.4	69.7	71.2	73.8	74.9	65.4	65.4	63.4	62.8	60.5
92.5°	40.1	43.1	46.0	49.0	51.9	54.9	56.5	59.1	56.1	52.9	50.0
95°	48.2	53.0	57.9	62.8	67.7	72.5	77.4	82.2	77.7	73.1	68.6
97.5°	54.1	59.9	65.6	71.4	77.1	82.9	88.6	94.3	89.5	84.6	79.7
100°	71.4	82.0	92.7	103.4	114.1	124.8	135.6	146.2	136.8	127.3	118.0
102.5°	149.3	172.1	194.9	217.5	240.3	263.1	285.7	308.5	287.0	265.4	243.9
105°	290.5	327.2	364.1	400.9	437.7	474.5	511.6	548.3	513.9	479.3	444.9
107.5°	461.0	498.3	535.6	572.9	610.4	647.7	685.2	722.7	689.0	655.4	621.8
110°	566.6	593.9	621.2	648.5	675.8	703.1	730.7	758.0	737.8	717.6	697.4



TEST NUMBER: P1444500
 CATALOG NUMBER: EHBR1-12-UNV-TA-L835-UPL18

CANDELA DISTRIBUTION (continued):

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
112.5°	589.6	609.3	628.9	648.3	667.8	687.4	707.2	726.8	716.8	706.7	696.7
115°	557.2	570.4	583.6	596.8	610.1	623.2	636.7	650.1	646.9	643.7	640.7
117.5°	500.9	508.4	515.8	523.3	530.6	538.0	546.0	553.6	554.2	554.9	555.6
120°	441.1	444.3	447.5	450.8	453.9	457.1	461.0	464.3	467.2	470.0	472.9
122.5°	389.9	391.2	392.5	393.8	395.0	396.3	398.3	399.9	401.8	403.9	406.0
125°	348.4	349.2	349.9	350.6	351.2	352.1	353.6	354.4	354.8	355.0	355.3
127.5°	320.3	320.7	320.8	321.1	321.3	321.6	322.7	323.2	322.2	321.2	320.3
130°	299.6	300.0	300.5	301.0	301.5	301.8	303.3	304.0	302.1	300.2	298.4
132.5°	285.7	286.2	286.7	287.4	287.9	288.5	290.0	290.8	288.8	286.4	284.3
135°	273.7	274.5	275.1	275.8	276.3	277.2	279.0	279.8	277.8	275.7	273.5
137.5°	263.5	264.3	265.0	265.7	266.3	267.0	269.0	269.9	268.3	266.6	265.0
140°	254.7	255.5	256.3	257.1	257.9	258.8	260.9	262.0	260.8	259.4	258.1
142.5°	245.8	246.9	247.9	249.0	250.1	251.1	253.6	254.9	254.0	253.1	252.3
145°	239.7	241.0	242.1	243.3	244.4	245.7	248.4	250.0	249.5	248.9	248.3
147.5°	234.2	235.2	236.3	237.4	238.5	239.8	242.4	244.0	243.7	243.4	243.0
150°	228.5	229.7	230.8	231.8	233.1	234.3	237.3	238.9	238.6	238.4	238.1
152.5°	222.6	223.6	224.6	225.6	226.6	227.8	231.2	232.8	232.5	232.2	232.0
155°	218.5	219.3	220.1	220.9	221.7	222.6	226.1	227.6	227.5	227.4	227.2
157.5°	216.5	217.1	217.6	218.3	218.8	219.5	223.0	224.4	224.3	224.1	224.0
160°	214.8	215.3	215.7	216.1	216.6	217.2	220.8	222.0	221.9	221.8	221.7
162.5°	213.6	214.3	214.8	215.3	215.9	216.5	220.2	221.6	221.4	221.2	221.0
165°	213.8	214.1	214.5	215.0	215.4	215.7	219.0	220.2	220.1	220.0	219.9
167.5°	214.4	214.9	215.3	215.5	216.0	216.5	219.5	220.7	220.6	220.5	220.4
170°	215.6	216.0	216.3	216.7	217.0	217.5	220.0	220.9	220.8	220.6	220.4
172.5°	216.9	217.4	217.7	218.1	218.4	218.8	221.0	221.9	221.8	221.7	221.4
175°	216.8	217.0	217.4	217.7	218.0	218.3	220.1	220.7	220.6	220.6	220.5
177.5°	218.5	218.6	218.7	219.0	219.2	219.4	220.6	221.0	221.0	221.0	220.9
180°	219.5	219.5	219.5	219.5	219.5	219.5	219.5	219.5	219.5	219.5	219.5



TEST NUMBER: P1444500
 CATALOG NUMBER: EHBR1-12-UNV-TA-L835-UPL18

CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
0°	10277.8	10277.8	10277.8	10277.8	10277.8	10277.8	10277.8	10277.8	10277.8	10277.8	10277.8
2.5°	10299.9	10303.5	10304.1	10308.2	10307.9	10312.9	10312.1	10316.3	10313.9	10317.2	10314.3
5°	10541.8	10563.7	10575.2	10596.6	10603.4	10622.5	10627.9	10645.5	10646.1	10660.0	10656.8
7.5°	10883.8	10916.2	10935.4	10961.8	10975.2	10997.2	11006.9	11023.3	11028.6	11041.5	11042.5
10°	11088.0	11103.7	11114.7	11122.1	11128.8	11132.0	11135.7	11134.7	11135.7	11134.2	11137.4
12.5°	11007.7	10984.7	10969.6	10940.9	10924.2	10892.5	10876.9	10846.5	10835.3	10809.1	10805.4
15°	10600.9	10521.0	10464.5	10382.4	10330.7	10250.0	10202.7	10129.8	10096.6	10038.6	10023.4
17.5°	9859.3	9710.9	9596.1	9448.9	9346.8	9209.1	9122.6	9008.6	8946.2	8854.4	8822.6
20°	8819.7	8600.2	8428.0	8222.9	8076.1	7893.2	7776.1	7628.4	7542.7	7429.8	7384.0
22.5°	7599.1	7325.9	7110.8	6868.5	6691.3	6487.5	6347.2	6187.4	6094.2	5971.6	5917.3
25°	6341.1	6039.8	5800.7	5545.4	5358.2	5153.9	5013.6	4856.6	4760.1	4643.7	4589.8
27.5°	5137.9	4832.9	4601.8	4364.5	4192.8	4008.4	3881.9	3744.8	3659.2	3559.8	3509.1
30°	4076.2	3807.1	3610.5	3413.5	3270.7	3121.0	3015.7	2902.2	2827.0	2742.0	2693.6
32.5°	3211.1	3003.4	2849.4	2693.1	2576.3	2451.1	2360.2	2260.0	2192.1	2116.2	2072.5
35°	2543.2	2381.8	2259.0	2130.3	2029.9	1923.3	1843.2	1756.7	1695.9	1630.4	1592.7
37.5°	2009.3	1881.1	1780.0	1673.1	1590.7	1502.3	1472.6	1373.4	1310.2	1258.1	1221.9
40°	1577.0	1474.9	1391.3	1309.6	1242.3	1175.4	1121.6	1068.5	1027.8	990.5	964.7
42.5°	1231.5	1157.5	1096.4	1036.6	987.6	938.8	899.8	863.3	835.9	811.5	794.8
45°	978.9	928.1	885.7	843.5	808.9	776.4	750.1	726.8	709.1	694.4	684.1
47.5°	804.2	769.4	739.5	711.0	687.6	666.2	648.7	643.0	623.9	611.1	606.2
50°	683.5	662.4	639.8	618.7	603.0	587.4	576.1	564.9	557.7	551.8	550.1
52.5°	593.4	577.3	564.6	551.3	541.0	529.9	522.0	514.6	510.7	507.6	507.2
55°	526.4	515.2	506.7	497.8	491.6	485.1	481.0	477.2	475.4	473.9	474.0
57.5°	475.7	468.1	462.7	457.0	453.6	450.5	449.4	448.4	448.9	449.2	450.1
60°	438.8	433.8	430.4	427.1	425.7	424.7	425.5	426.3	428.2	429.5	430.9
62.5°	410.4	407.6	406.0	404.1	404.0	404.1	405.6	407.1	409.4	411.0	412.3
65°	381.3	379.7	379.1	378.1	378.5	378.9	380.8	381.9	384.2	385.5	387.1
67.5°	351.9	351.5	351.8	351.8	352.8	353.7	355.5	356.7	358.7	359.9	361.2
70°	330.1	330.3	331.0	331.2	332.3	332.9	334.4	335.3	336.9	338.0	339.6
72.5°	308.9	308.6	308.8	308.3	308.7	308.5	309.4	309.8	311.2	312.0	314.0
75°	286.4	285.5	285.3	284.2	284.3	283.5	283.9	283.8	284.8	285.2	286.5
77.5°	259.3	257.6	256.9	255.2	255.1	254.5	255.2	255.6	257.2	258.1	259.7
80°	226.7	224.2	223.0	221.1	221.5	221.3	223.0	224.3	226.3	226.7	228.6
82.5°	188.4	185.9	184.6	182.7	183.2	183.3	184.7	185.0	186.7	187.5	189.9
85°	134.9	135.9	133.2	133.4	132.8	133.9	134.9	136.2	137.7	140.2	142.0
87.5°	79.4	79.1	80.1	80.2	81.5	82.3	84.5	85.7	88.2	90.2	93.7
90°	59.3	57.0	56.6	55.1	55.3	53.8	54.2	52.7	53.2	52.5	53.5
92.5°	46.7	43.8	40.6	37.6	34.4	31.5	29.9	28.5	27.1	25.8	24.1
95°	64.0	59.5	55.0	50.4	46.0	41.4	39.8	38.1	36.5	34.8	33.1
97.5°	74.9	69.9	65.1	60.1	55.3	50.4	49.4	48.2	47.1	46.1	44.9
100°	108.6	99.2	89.8	80.4	71.0	61.6	60.7	59.8	59.0	58.1	57.1
102.5°	222.3	200.6	179.1	157.6	136.0	114.4	110.6	106.9	103.2	99.4	95.7
105°	410.3	375.8	341.4	306.9	272.4	237.9	227.7	217.3	207.0	196.7	186.6
107.5°	588.2	554.4	520.9	487.2	453.7	420.0	403.8	387.6	371.3	355.0	338.8
110°	677.2	657.0	636.9	616.6	596.5	576.4	560.9	545.4	529.9	514.4	499.0



TEST NUMBER: P1444500
 CATALOG NUMBER: EHBR1-12-UNV-TA-L835-UPL18

CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
112.5°	686.5	676.5	666.4	656.4	646.3	636.4	628.8	621.2	613.8	606.1	598.5
115°	637.5	634.3	631.1	628.1	625.0	621.8	621.3	620.8	620.3	619.9	619.3
117.5°	556.2	556.9	557.6	558.4	559.1	559.8	563.8	568.0	572.1	576.1	580.4
120°	475.7	478.4	481.3	484.2	487.0	489.9	495.4	500.9	506.4	512.0	517.6
122.5°	408.0	410.0	412.0	414.1	416.2	418.2	423.6	429.2	434.6	440.0	445.7
125°	355.5	355.8	356.0	356.1	356.4	356.7	361.3	365.7	370.3	375.0	379.4
127.5°	319.3	318.2	317.2	316.3	315.2	314.3	317.0	319.7	322.4	325.2	327.9
130°	296.4	294.7	292.6	290.8	288.8	287.0	288.2	289.3	290.4	291.7	292.8
132.5°	282.1	279.7	277.5	275.3	272.9	270.8	270.9	271.0	271.2	271.3	271.6
135°	271.4	269.4	267.2	265.0	262.9	260.8	260.3	260.0	259.6	259.2	258.7
137.5°	263.3	261.7	260.0	258.3	256.7	255.0	254.3	253.7	253.0	252.4	251.8
140°	256.9	255.5	254.1	252.9	251.4	250.3	249.7	249.2	248.5	248.1	247.6
142.5°	251.2	250.3	249.3	248.4	247.4	246.5	246.0	245.4	244.9	244.5	244.0
145°	247.7	247.2	246.5	246.0	245.3	244.8	244.3	244.1	243.7	243.4	243.0
147.5°	242.7	242.3	242.0	241.6	241.2	241.0	240.7	240.5	240.2	240.1	239.8
150°	237.8	237.4	237.1	236.8	236.5	236.2	236.0	235.9	235.8	235.8	235.7
152.5°	231.7	231.4	231.1	230.9	230.5	230.2	230.1	230.1	230.0	229.9	229.9
155°	227.0	226.9	226.7	226.5	226.3	226.1	226.0	225.8	225.6	225.4	225.2
157.5°	223.9	223.7	223.5	223.4	223.2	223.0	222.8	222.7	222.5	222.4	222.2
160°	221.5	221.4	221.2	221.1	220.9	220.8	220.5	220.2	220.0	219.7	219.3
162.5°	220.7	220.3	220.1	219.9	219.6	219.4	219.2	219.0	218.8	218.7	218.6
165°	219.7	219.6	219.4	219.2	219.1	219.0	218.7	218.5	218.2	217.9	217.6
167.5°	220.2	220.1	219.9	219.8	219.6	219.5	219.3	219.0	218.7	218.6	218.2
170°	220.2	219.8	219.7	219.4	219.2	218.9	218.7	218.6	218.3	218.1	217.7
172.5°	221.3	221.0	220.8	220.6	220.4	220.2	220.0	219.8	219.6	219.4	219.1
175°	220.4	220.4	220.4	220.2	220.2	220.1	220.0	220.0	219.9	219.9	219.8
177.5°	220.9	220.9	220.9	220.8	220.8	220.8	220.6	220.5	220.3	220.1	220.0
180°	219.5	219.5	219.5	219.5	219.5	219.5	219.5	219.5	219.5	219.5	219.5



TEST NUMBER: P1444500
 CATALOG NUMBER: EHBR1-12-UNV-TA-L835-UPL18

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	92.5°	95°	97.5°	100°	102.5°	105°	107.5°
0°	10277.8	10277.8	10277.8	10277.8	10277.8	10277.8	10277.8	10277.8	10277.8	10277.8	10277.8
2.5°	10317.3	10314.7	10316.0	10311.1	10312.3	10306.5	10305.9	10299.3	10298.7	10292.5	10290.2
5°	10666.7	10660.9	10667.4	10657.3	10659.3	10646.1	10645.1	10628.0	10622.2	10601.0	10591.7
7.5°	11050.6	11048.4	11052.4	11044.0	11043.7	11032.0	11027.1	11011.9	11002.4	10980.1	10965.8
10°	11134.7	11136.7	11133.5	11134.2	11129.7	11128.4	11123.8	11120.8	11113.1	11107.3	11098.8
12.5°	10785.5	10787.5	10774.2	10782.7	10776.0	10791.6	10790.3	10808.6	10811.5	10834.7	10843.6
15°	9978.3	9975.7	9950.1	9966.3	9957.6	9991.8	9999.5	10045.6	10070.1	10129.2	10165.5
17.5°	8758.9	8752.3	8716.3	8735.9	8725.9	8776.4	8793.3	8866.9	8912.7	9008.0	9075.8
20°	7305.3	7292.7	7250.6	7273.6	7263.3	7320.6	7344.8	7433.7	7492.8	7619.0	7708.7
22.5°	5833.7	5813.8	5772.5	5794.1	5784.3	5843.6	5875.1	5964.3	6032.1	6161.5	6266.3
25°	4512.2	4494.5	4454.6	4469.7	4466.1	4516.2	4544.2	4628.6	4695.2	4818.5	4918.5
27.5°	3441.6	3423.1	3387.1	3397.7	3394.1	3436.8	3463.2	3533.7	3591.1	3694.8	3782.6
30°	2634.1	2611.8	2581.2	2587.0	2584.6	2619.2	2643.9	2703.2	2752.4	2840.1	2915.7
32.5°	2019.0	1996.6	1968.5	1971.2	1967.6	1994.8	2015.1	2066.6	2109.5	2184.1	2249.9
35°	1544.8	1571.0	1511.1	1549.0	1509.5	1567.5	1546.6	1578.9	1615.8	1678.6	1733.5
37.5°	1187.6	1169.4	1153.9	1152.3	1152.2	1165.7	1181.6	1212.6	1245.1	1291.9	1340.3
40°	941.1	928.3	918.3	917.6	918.3	927.9	939.7	961.1	984.8	1018.5	1054.1
42.5°	780.5	772.1	766.0	765.6	767.6	774.3	782.5	795.2	810.7	832.5	856.9
45°	675.5	670.9	667.5	667.3	668.2	671.8	676.4	684.4	694.2	707.7	723.2
47.5°	601.9	600.8	598.6	598.7	597.8	599.2	599.8	604.3	609.4	619.7	639.9
50°	548.3	548.3	546.9	546.8	545.4	545.3	544.2	545.9	548.3	554.7	561.1
52.5°	505.9	505.8	504.2	503.9	502.5	502.4	501.4	502.1	502.4	505.6	509.4
55°	472.8	471.7	469.7	469.0	468.5	469.3	468.9	469.0	468.5	469.9	471.0
57.5°	448.9	447.7	445.7	445.2	445.1	446.0	446.0	445.7	443.9	442.7	441.0
60°	430.1	428.9	426.7	426.2	426.5	427.9	427.8	426.7	424.0	421.7	419.0
62.5°	411.7	411.1	410.1	410.0	409.7	409.9	409.0	407.7	405.1	402.6	399.7
65°	386.9	387.2	386.4	386.5	385.5	385.3	383.9	382.7	380.1	377.9	374.9
67.5°	361.2	361.4	360.7	360.7	360.2	360.3	359.3	358.3	356.0	354.2	351.9
70°	339.9	340.4	340.0	340.1	339.6	339.4	338.0	336.9	334.6	333.1	330.9
72.5°	314.5	315.6	315.6	315.9	314.9	314.5	312.9	311.5	309.4	308.2	306.6
75°	287.1	288.6	288.9	289.6	288.4	287.7	285.8	284.8	283.1	282.4	281.3
77.5°	260.3	262.0	263.5	265.0	262.9	261.0	258.8	257.0	254.6	253.7	251.9
80°	230.3	233.2	236.6	239.5	235.7	231.9	228.2	225.5	222.2	220.9	218.7
82.5°	191.0	194.0	196.0	197.8	195.2	192.5	188.9	186.5	183.0	181.6	179.2
85°	145.2	148.8	150.0	151.0	149.3	147.9	144.5	139.9	137.8	134.3	132.5
87.5°	95.4	97.6	98.1	98.4	97.3	96.7	94.5	92.4	88.6	85.8	82.5
90°	52.4	52.8	50.9	50.5	50.1	51.2	50.0	50.2	48.0	47.8	46.0
92.5°	22.8	21.3	19.9	18.4	20.1	21.3	22.9	24.1	25.7	27.1	28.5
95°	31.4	29.8	28.1	26.5	27.8	29.1	30.4	31.8	33.1	34.4	35.8
97.5°	43.8	42.8	41.6	40.5	41.3	42.1	42.9	43.6	44.3	45.1	46.0
100°	56.2	55.4	54.5	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6
102.5°	91.9	88.1	84.5	80.7	83.2	85.7	88.2	90.8	93.4	95.9	98.5
105°	176.3	166.0	155.7	145.4	155.3	165.3	175.2	185.2	195.1	205.2	215.1
107.5°	322.5	306.3	290.0	273.8	292.0	310.1	328.1	346.3	364.4	382.5	400.6
110°	483.5	468.0	452.5	437.1	456.3	475.5	494.7	513.9	533.2	552.4	571.7



TEST NUMBER: P1444500
 CATALOG NUMBER: EHBR1-12-UNV-TA-L835-UPL18

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	92.5°	95°	97.5°	100°	102.5°	105°	107.5°
112.5°	591.0	583.5	576.0	568.5	580.9	593.2	605.6	618.0	630.4	642.9	655.3
115°	618.9	618.4	618.0	617.6	623.4	629.3	635.1	640.9	646.9	652.7	658.7
117.5°	584.5	588.7	592.9	597.1	598.9	600.9	602.7	604.6	606.6	608.4	610.4
120°	523.1	528.6	534.3	539.9	539.1	538.3	537.6	536.8	536.3	535.5	534.9
122.5°	451.3	456.8	462.4	468.0	466.4	464.7	463.1	461.4	459.9	458.2	456.8
125°	384.2	388.8	393.5	398.2	396.6	394.9	393.3	391.7	390.2	388.6	387.2
127.5°	330.8	333.8	336.7	339.6	338.8	338.0	337.3	336.7	336.1	335.4	334.8
130°	294.2	295.4	296.8	298.2	298.4	298.5	298.9	299.2	299.6	299.9	300.4
132.5°	271.9	272.2	272.5	272.9	273.7	274.6	275.6	276.5	277.7	278.7	279.8
135°	258.5	258.2	258.0	257.8	259.2	260.4	261.8	263.3	264.7	266.3	267.9
137.5°	251.2	250.7	250.3	249.9	251.2	252.5	253.9	255.3	256.8	258.3	260.0
140°	247.3	246.8	246.6	246.2	247.5	248.8	250.2	251.6	253.1	254.6	256.2
142.5°	243.6	243.2	242.8	242.5	243.8	244.9	246.3	247.4	248.9	250.2	251.6
145°	242.7	242.4	242.2	242.0	242.8	243.7	244.6	245.6	246.7	247.6	248.7
147.5°	239.7	239.5	239.4	239.3	240.0	240.7	241.3	242.0	242.7	243.5	244.3
150°	235.8	235.7	235.6	235.7	236.1	236.5	237.0	237.4	237.9	238.3	239.0
152.5°	229.9	229.8	229.9	229.9	230.3	230.7	231.2	231.4	232.0	232.4	233.0
155°	225.2	225.0	225.0	224.9	225.0	225.2	225.4	225.5	225.8	226.0	226.2
157.5°	222.1	221.9	221.9	221.8	221.8	221.8	221.8	221.8	222.0	222.0	222.1
160°	219.2	218.9	218.6	218.5	218.6	218.6	218.9	218.9	219.1	219.2	219.4
162.5°	218.5	218.3	218.2	218.0	218.0	217.8	217.7	217.6	217.5	217.4	217.4
165°	217.4	217.0	216.8	216.5	216.5	216.5	216.6	216.6	216.6	216.6	216.7
167.5°	218.0	217.7	217.5	217.2	217.1	216.8	216.7	216.4	216.2	216.0	215.9
170°	217.5	217.3	217.1	216.9	216.8	216.7	216.7	216.5	216.5	216.5	216.5
172.5°	218.9	218.7	218.6	218.4	218.3	218.3	218.2	218.2	218.1	218.1	218.1
175°	219.7	219.7	219.6	219.5	219.4	219.3	219.1	219.0	218.9	218.7	218.6
177.5°	219.9	219.6	219.5	219.4	219.4	219.4	219.4	219.4	219.4	219.3	219.3
180°	219.5	219.5	219.5	219.5	219.5	219.5	219.5	219.5	219.5	219.5	219.5



TEST NUMBER: P1444500
 CATALOG NUMBER: EHBR1-12-UNV-TA-L835-UPL18

CANDELA DISTRIBUTION (continued):

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°
0°	10277.8	10277.8	10277.8	10277.8	10277.8	10277.8	10277.8	10277.8	10277.8	10277.8	10277.8
2.5°	10283.5	10280.8	10273.6	10270.1	10263.5	10260.2	10255.1	10251.8	10247.6	10244.5	10243.0
5°	10568.4	10555.3	10528.9	10512.7	10484.2	10465.5	10437.2	10416.5	10387.3	10365.8	10338.2
7.5°	10939.1	10918.9	10885.2	10859.6	10819.8	10789.4	10744.7	10708.9	10659.5	10618.6	10568.2
10°	11090.0	11078.2	11063.1	11046.6	11024.6	11003.0	10972.4	10941.4	10899.9	10858.7	10804.9
12.5°	10866.9	10878.1	10899.9	10910.1	10926.8	10932.5	10940.1	10936.5	10929.9	10913.0	10888.5
15°	10235.2	10281.5	10354.7	10405.2	10476.1	10525.9	10591.7	10634.1	10683.0	10712.2	10739.9
17.5°	9196.1	9285.6	9414.6	9517.6	9655.8	9768.1	9905.8	10014.0	10138.9	10234.7	10336.7
20°	7865.0	7990.3	8168.5	8319.8	8520.1	8689.9	8907.5	9089.8	9302.3	9479.6	9670.9
22.5°	6432.5	6579.8	6784.0	6966.5	7205.6	7419.2	7691.9	7932.9	8220.3	8477.9	8762.7
25°	5081.0	5225.5	5433.5	5622.3	5880.6	6115.9	6413.7	6690.2	7023.7	7334.8	7691.9
27.5°	3922.0	4050.4	4233.2	4403.2	4639.7	4870.8	5173.0	5467.8	5823.7	6158.1	6542.9
30°	3028.9	3133.0	3279.5	3416.4	3606.2	3795.1	4064.4	4337.0	4691.1	5037.6	5432.1
32.5°	2347.4	2436.1	2558.3	2669.5	2815.7	2958.2	3156.4	3374.3	3684.9	4016.7	4398.3
35°	1817.1	1893.0	1997.1	2092.8	2213.1	2326.1	2474.1	2629.6	2866.7	3145.8	3487.2
37.5°	1448.7	1479.6	1553.9	1632.3	1732.2	1825.1	1940.9	2055.9	2225.5	2445.7	2724.6
40°	1101.7	1150.8	1211.3	1273.1	1348.7	1423.3	1550.2	1611.3	1723.0	1881.2	2097.6
42.5°	888.9	923.5	966.0	1009.0	1061.7	1113.6	1177.8	1243.2	1326.7	1433.8	1587.8
45°	743.9	766.4	793.8	822.4	857.0	892.5	935.5	980.4	1037.0	1102.8	1196.3
47.5°	646.9	659.4	677.4	696.9	720.6	745.2	773.1	801.7	836.9	875.9	929.2
50°	571.3	581.7	595.6	608.7	625.1	650.2	661.3	677.1	698.2	721.2	751.0
52.5°	516.6	523.5	532.2	539.8	550.1	559.5	571.9	582.7	597.4	611.2	630.4
55°	474.0	476.5	481.4	486.3	493.4	499.8	508.3	515.5	524.8	533.0	545.1
57.5°	441.1	441.3	443.6	446.1	450.7	454.8	460.6	465.2	471.7	477.0	484.2
60°	417.4	416.2	416.6	417.5	420.0	422.7	426.4	429.4	433.5	436.5	440.6
62.5°	397.7	395.7	395.3	395.0	396.4	397.3	399.3	400.7	403.1	404.4	406.6
65°	372.8	370.5	369.6	368.6	368.9	368.6	369.3	369.4	370.6	370.9	372.1
67.5°	350.3	348.4	347.1	345.7	345.1	344.0	343.5	342.6	342.5	341.6	341.4
70°	329.7	327.8	326.9	325.5	324.8	323.5	322.6	320.9	319.9	318.3	317.5
72.5°	305.9	304.8	304.6	303.6	303.4	302.6	302.3	301.1	300.4	299.1	298.4
75°	281.0	280.1	280.1	279.2	279.1	278.2	278.0	276.7	276.1	274.7	274.1
77.5°	251.4	250.1	249.7	248.6	248.9	248.5	248.8	247.9	247.4	246.2	245.7
80°	218.1	216.3	215.6	214.3	214.7	214.0	214.7	214.6	215.1	214.0	213.8
82.5°	178.5	176.7	176.3	175.3	176.0	176.1	177.4	176.7	177.1	176.0	176.5
85°	129.9	128.5	126.6	126.3	125.1	126.3	124.8	125.9	124.0	125.3	123.6
87.5°	80.5	77.7	76.2	74.2	73.4	71.5	70.7	69.3	69.7	69.0	69.4
90°	46.3	44.7	45.8	45.3	46.7	46.4	48.2	48.5	50.5	50.7	52.7
92.5°	29.9	31.3	33.9	36.7	39.3	41.9	44.6	47.3	49.8	52.7	55.2
95°	37.0	38.4	41.9	45.5	49.0	52.6	56.1	59.7	63.2	66.8	70.3
97.5°	46.7	47.5	51.0	54.6	58.1	61.7	65.2	68.8	72.3	75.9	79.4
100°	53.6	53.7	63.8	73.8	83.9	94.0	103.9	114.0	124.2	134.2	144.3
102.5°	101.0	103.6	129.0	154.4	179.8	205.2	230.7	256.1	281.5	307.0	332.4
105°	225.0	234.9	273.7	312.6	351.3	390.1	428.9	467.7	506.4	545.3	584.1
107.5°	418.8	436.9	472.0	507.0	542.0	577.1	612.2	647.2	682.3	717.3	752.5
110°	590.9	610.1	633.5	657.0	680.5	704.0	727.4	751.0	774.4	798.0	821.6



TEST NUMBER: P1444500
 CATALOG NUMBER: EHBR1-12-UNV-TA-L835-UPL18

CANDELA DISTRIBUTION (continued):

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°
112.5°	667.6	680.1	693.7	707.3	721.0	734.7	748.4	762.0	775.8	789.5	803.2
115°	664.6	670.5	675.7	681.1	686.4	691.6	697.1	702.4	707.8	713.1	718.5
117.5°	612.4	614.4	615.1	616.0	616.8	617.6	618.4	619.3	620.2	621.1	621.9
120°	534.2	533.5	532.6	531.6	530.8	529.8	528.9	528.1	527.2	526.3	525.5
122.5°	455.2	453.8	452.8	451.9	451.1	450.3	449.4	448.6	447.9	447.0	446.2
125°	385.7	384.3	384.9	385.6	386.4	387.1	387.8	388.6	389.4	390.1	391.0
127.5°	334.2	333.7	335.6	337.6	339.6	341.5	343.5	345.6	347.5	349.5	351.5
130°	300.9	301.3	303.8	306.4	308.8	311.4	314.1	316.7	319.1	321.7	324.3
132.5°	280.9	282.2	284.5	286.9	289.4	292.0	294.4	296.9	299.3	301.8	304.3
135°	269.4	271.0	273.2	275.5	277.7	279.9	282.3	284.5	286.6	289.0	291.2
137.5°	261.4	263.1	264.9	266.6	268.4	270.3	272.0	273.8	275.6	277.4	279.2
140°	257.6	259.4	260.2	261.3	262.2	263.3	264.2	265.3	266.1	267.1	268.1
142.5°	253.0	254.5	255.0	255.8	256.3	257.0	257.6	258.3	258.8	259.5	260.1
145°	249.7	250.8	250.8	250.8	250.8	250.9	250.8	250.9	250.8	250.8	250.8
147.5°	245.1	246.0	245.8	245.7	245.6	245.3	245.2	245.0	244.8	244.6	244.5
150°	239.4	240.1	239.7	239.5	239.1	238.8	238.4	238.1	237.8	237.6	237.2
152.5°	233.4	234.0	233.5	233.2	232.8	232.5	232.0	231.7	231.4	231.0	230.7
155°	226.5	226.7	226.5	226.3	226.1	225.9	225.6	225.5	225.4	225.1	225.0
157.5°	222.1	222.2	222.1	222.0	221.8	221.8	221.7	221.6	221.6	221.6	221.6
160°	219.5	219.7	219.5	219.4	219.3	219.2	219.0	219.0	219.0	219.0	219.0
162.5°	217.3	217.2	217.1	217.0	216.9	216.8	216.7	216.7	216.6	216.6	216.6
165°	216.8	216.9	216.6	216.4	216.2	216.0	215.8	215.7	215.6	215.4	215.4
167.5°	215.7	215.6	215.6	215.7	215.7	215.7	215.8	215.9	216.0	216.1	216.2
170°	216.4	216.5	216.3	216.3	216.1	216.0	215.9	215.9	215.8	215.7	215.7
172.5°	218.1	218.1	217.9	217.6	217.4	217.2	216.9	216.8	216.6	216.3	216.1
175°	218.5	218.4	218.3	218.2	218.1	217.9	217.7	217.6	217.5	217.4	217.3
177.5°	219.3	219.2	219.1	219.1	219.1	219.1	219.1	219.0	219.0	219.0	218.9
180°	219.5	219.5	219.5	219.5	219.5	219.5	219.5	219.5	219.5	219.5	219.5



TEST NUMBER: P1444500
 CATALOG NUMBER: EHBR1-12-UNV-TA-L835-UPL18

CANDELA DISTRIBUTION (continued):

	137.5°	140°	142.5°	145°	147.5°	150°	152.5°	155°	157.5°	160°	162.5°
0°	10277.8	10277.8	10277.8	10277.8	10277.8	10277.8	10277.8	10277.8	10277.8	10277.8	10277.8
2.5°	10240.9	10240.7	10239.8	10240.3	10240.5	10241.1	10242.0	10243.0	10243.2	10243.8	10244.0
5°	10317.5	10292.2	10273.4	10252.9	10237.3	10223.4	10214.1	10206.7	10203.9	10204.6	10206.3
7.5°	10525.3	10473.1	10429.9	10380.9	10339.9	10296.6	10260.7	10226.6	10201.7	10183.1	10172.8
10°	10753.4	10689.7	10628.8	10557.8	10490.4	10418.6	10353.4	10287.9	10233.3	10185.8	10151.0
12.5°	10854.6	10809.6	10756.9	10689.9	10617.8	10534.9	10451.1	10361.4	10277.9	10200.4	10137.9
15°	10747.5	10747.6	10728.4	10696.2	10646.1	10579.9	10500.0	10406.4	10307.9	10207.5	10115.7
17.5°	10407.3	10471.5	10507.2	10529.8	10522.8	10498.5	10447.7	10375.8	10284.0	10176.8	10064.8
20°	9823.2	9974.6	10082.5	10179.6	10234.0	10270.1	10266.4	10237.2	10171.8	10080.8	9964.0
22.5°	9005.0	9259.0	9459.4	9646.5	9777.6	9884.2	9934.9	9956.4	9926.8	9863.4	9753.8
25°	8011.1	8356.5	8651.3	8937.4	9152.0	9336.5	9447.3	9525.4	9531.6	9498.4	9400.7
27.5°	6906.7	7314.4	7687.5	8067.8	8369.6	8634.8	8808.7	8936.0	8976.5	8971.1	8882.3
30°	5803.8	6231.8	6643.1	7086.5	7459.9	7798.7	8028.5	8200.7	8267.0	8279.7	8194.4
32.5°	4762.1	5184.3	5594.3	6057.9	6468.8	6857.1	7128.6	7333.1	7410.3	7428.5	7334.8
35°	3816.8	4206.2	4596.0	5045.2	5453.8	5855.8	6141.9	6356.1	6428.1	6440.3	6331.8
37.5°	2997.0	3328.8	3668.4	4071.5	4446.7	4824.2	5096.1	5297.3	5349.9	5346.6	5223.9
40°	2306.7	2564.6	2837.6	3169.4	3481.4	3800.5	4030.0	4196.4	4224.1	4203.6	4074.7
42.5°	1734.6	1920.8	2118.7	2366.4	2597.9	2836.7	3003.7	3127.2	3131.2	3098.9	2983.1
45°	1292.2	1474.0	1556.9	1706.7	1855.9	2014.7	2116.6	2192.9	2181.2	2152.7	2064.7
47.5°	985.1	1054.9	1129.0	1221.9	1308.8	1489.0	1475.7	1598.1	1509.9	1570.1	1437.7
50°	782.3	821.3	861.2	910.6	955.9	1003.0	1032.5	1054.5	1051.6	1042.1	1016.7
52.5°	665.5	677.6	697.3	725.3	750.6	776.1	792.9	806.5	806.7	802.9	790.1
55°	556.3	571.6	585.7	604.0	635.2	640.0	664.0	659.1	661.1	654.4	661.2
57.5°	490.4	499.4	507.3	518.2	527.2	537.8	544.0	549.9	549.4	548.0	541.5
60°	443.8	448.7	453.1	459.5	464.4	470.4	473.3	476.3	475.3	473.1	467.3
62.5°	407.8	410.9	413.4	417.5	420.5	424.2	425.8	427.0	425.8	423.6	418.5
65°	372.3	374.4	375.9	379.0	381.2	384.4	385.6	386.8	385.6	384.0	380.1
67.5°	340.3	340.5	340.4	341.7	342.3	344.2	344.8	345.7	344.3	342.9	339.6
70°	316.1	315.6	315.0	315.5	315.6	316.6	316.7	316.6	314.9	312.4	308.8
72.5°	297.2	296.9	296.4	296.8	296.8	297.7	297.4	297.0	295.0	292.6	289.0
75°	272.8	272.6	271.7	271.7	270.9	271.2	270.2	269.7	267.4	265.4	262.2
77.5°	244.2	243.8	242.4	241.9	240.5	239.9	238.0	237.1	234.8	233.2	230.5
80°	212.3	211.9	210.2	209.2	206.9	205.5	202.7	201.2	198.6	197.0	194.3
82.5°	175.6	175.8	174.0	172.9	169.6	167.1	163.4	161.4	158.5	157.0	154.3
85°	124.9	123.0	124.0	123.9	121.9	119.7	116.7	114.6	112.2	110.7	108.8
87.5°	68.5	68.9	68.5	68.0	66.5	65.4	63.1	61.9	60.1	59.2	57.8
90°	49.4	47.6	44.2	42.6	39.3	36.9	33.4	31.2	27.8	27.0	25.0
92.5°	52.2	49.3	46.3	43.2	40.4	37.4	34.4	31.5	28.5	27.4	26.5
95°	66.0	61.7	57.4	53.0	48.8	44.4	40.1	35.8	31.5	30.6	29.8
97.5°	74.4	69.2	64.2	59.1	54.0	49.0	44.0	38.9	33.8	33.3	32.8
100°	132.5	120.9	109.3	97.5	85.8	74.1	62.5	50.8	39.1	38.4	37.7
102.5°	304.0	275.8	247.4	218.9	190.7	162.3	133.9	105.6	77.3	73.2	69.1
105°	541.2	498.3	455.4	412.6	369.6	326.7	283.8	240.9	198.0	184.2	170.4
107.5°	712.1	671.8	631.5	591.2	550.7	510.4	470.2	429.7	389.3	365.1	340.8
110°	789.5	757.4	725.5	693.5	661.4	629.4	597.3	565.2	533.2	512.3	491.4



TEST NUMBER: P1444500
 CATALOG NUMBER: EHBR1-12-UNV-TA-L835-UPL18

CANDELA DISTRIBUTION (continued):

	137.5°	140°	142.5°	145°	147.5°	150°	152.5°	155°	157.5°	160°	162.5°
112.5°	779.7	756.2	732.7	709.2	685.8	662.2	638.7	615.2	591.7	579.0	566.3
115°	704.3	690.2	676.0	661.8	647.6	633.4	619.2	604.9	590.7	583.9	577.2
117.5°	614.7	607.4	600.1	592.7	585.5	578.1	570.8	563.3	556.1	553.8	551.3
120°	523.3	521.0	518.6	516.3	514.0	511.7	509.2	506.9	504.6	504.8	505.0
122.5°	447.0	447.7	448.4	449.0	449.8	450.4	451.2	451.7	452.4	454.1	455.8
125°	392.9	394.8	396.8	398.7	400.6	402.5	404.4	406.3	408.2	409.9	411.6
127.5°	353.7	355.9	358.2	360.3	362.5	364.8	366.9	369.0	371.2	372.6	374.3
130°	326.3	328.1	330.0	331.8	333.7	335.6	337.4	339.3	341.1	342.3	343.3
132.5°	305.9	307.6	309.3	310.9	312.5	314.2	315.9	317.5	319.2	320.0	320.8
135°	292.4	293.5	294.8	295.9	297.3	298.4	299.6	300.9	302.0	302.5	303.0
137.5°	280.2	281.1	282.1	283.0	284.0	285.0	285.9	286.9	288.0	288.1	288.4
140°	269.2	270.2	271.2	272.3	273.3	274.4	275.6	276.6	277.8	278.0	278.2
142.5°	260.8	261.5	262.4	263.2	264.0	264.8	265.7	266.5	267.4	267.6	267.8
145°	251.8	252.8	253.7	254.7	255.8	256.8	257.9	259.0	260.1	260.1	260.1
147.5°	245.3	246.2	247.1	247.9	248.8	249.7	250.6	251.6	252.7	252.7	252.7
150°	238.1	239.0	239.9	240.9	241.8	242.9	243.9	244.9	246.1	246.3	246.5
152.5°	231.6	232.6	233.6	234.6	235.8	237.0	238.1	239.2	240.4	240.6	240.9
155°	226.0	227.0	228.1	229.1	230.3	231.4	232.5	233.6	234.7	235.0	235.3
157.5°	222.4	223.3	224.3	225.2	226.2	227.2	228.2	229.2	230.2	230.5	230.7
160°	219.9	220.7	221.5	222.3	223.2	224.1	224.9	225.7	226.6	226.9	227.1
162.5°	217.5	218.4	219.1	219.9	220.8	221.7	222.4	223.3	224.2	224.4	224.7
165°	216.0	216.5	217.2	217.7	218.4	218.9	219.6	220.1	220.9	221.1	221.4
167.5°	216.7	217.1	217.6	218.1	218.6	219.0	219.5	220.0	220.5	220.8	221.0
170°	216.1	216.6	216.9	217.5	217.9	218.4	218.7	219.2	219.7	219.9	220.2
172.5°	216.4	216.7	217.0	217.3	217.6	217.9	218.2	218.6	218.8	219.1	219.3
175°	217.4	217.5	217.7	217.8	218.0	218.2	218.3	218.5	218.6	218.8	219.1
177.5°	219.0	219.1	219.3	219.4	219.6	219.7	220.0	220.1	220.2	220.5	220.9
180°	219.5	219.5	219.5	219.5	219.5	219.5	219.5	219.5	219.5	219.5	219.5



TEST NUMBER: P1444500
 CATALOG NUMBER: EHBR1-12-UNV-TA-L835-UPL18

CANDELA DISTRIBUTION (continued):

	165°	167.5°	170°	172.5°	175°	177.5°	180°	182.5°	185°	187.5°	190°
0°	10277.8	10277.8	10277.8	10277.8	10277.8	10277.8	10277.8	10277.8	10277.8	10277.8	10277.8
2.5°	10243.7	10243.6	10243.3	10242.8	10242.3	10242.6	10243.1	10244.2	10246.3	10249.3	10253.2
5°	10207.7	10209.8	10211.0	10211.2	10210.1	10209.4	10210.4	10213.2	10218.9	10228.4	10241.3
7.5°	10170.1	10172.6	10176.6	10179.6	10180.1	10179.4	10179.6	10183.9	10194.4	10213.0	10239.0
10°	10129.7	10122.1	10126.1	10133.5	10139.4	10140.5	10141.2	10146.4	10161.7	10189.7	10231.5
12.5°	10092.6	10068.3	10063.7	10070.3	10079.2	10082.1	10081.3	10083.6	10101.5	10138.5	10196.8
15°	10043.6	9998.0	9982.5	9984.2	9995.2	9999.2	9996.3	9991.8	10009.4	10054.7	10130.0
17.5°	9964.5	9891.0	9862.4	9861.1	9873.9	9877.4	9870.3	9856.6	9873.8	9930.4	10023.9
20°	9844.2	9735.7	9681.8	9673.1	9687.1	9683.0	9669.0	9648.2	9670.8	9739.5	9850.9
22.5°	9627.8	9490.4	9398.2	9368.5	9385.2	9374.1	9353.4	9327.0	9357.0	9435.1	9559.1
25°	9274.4	9115.5	8989.3	8918.6	8931.9	8911.9	8889.5	8857.4	8893.3	8982.9	9119.3
27.5°	8754.8	8571.3	8414.9	8297.8	8302.1	8275.9	8250.1	8208.6	8253.3	8359.4	8513.3
30°	8063.9	7851.6	7661.2	7502.0	7487.7	7462.3	7435.8	7381.4	7437.4	7564.4	7744.2
32.5°	7196.3	6960.5	6740.5	6539.2	6501.3	6476.5	6452.9	6390.2	6463.5	6611.5	6818.2
35°	6181.6	5930.5	5692.0	5462.1	5399.1	5374.3	5353.8	5293.6	5385.2	5546.3	5769.4
37.5°	5067.9	4811.4	4574.6	4338.8	4249.8	4216.2	4201.3	4161.9	4267.5	4426.8	4650.9
40°	3924.5	3686.0	3473.7	3265.5	3164.1	3112.6	3104.8	3097.6	3199.6	3337.9	3541.3
42.5°	2854.9	2662.5	2498.8	2339.6	2247.8	2177.5	2177.5	2198.8	2290.6	2394.2	2551.1
45°	1974.8	1845.7	1741.4	1635.1	1663.5	1523.4	1605.7	1563.4	1608.8	1675.6	1777.6
47.5°	1357.6	1287.0	1229.8	1170.3	1127.0	1085.6	1089.3	1115.9	1158.7	1198.3	1251.4
50°	989.4	953.5	924.3	893.5	871.9	853.7	854.7	866.3	888.8	909.6	937.3
52.5°	775.3	755.4	739.6	722.6	711.2	702.2	702.7	708.3	720.4	732.4	748.3
55°	639.0	636.7	616.0	600.7	594.9	588.8	589.9	592.1	600.4	607.3	617.8
57.5°	535.5	526.2	520.0	512.0	508.3	504.0	505.0	505.9	511.4	516.0	523.6
60°	462.4	455.8	451.5	445.9	443.5	440.8	441.5	442.0	445.4	448.5	454.0
62.5°	413.8	407.9	404.1	399.9	398.2	396.4	396.8	397.0	399.2	401.4	405.5
65°	376.6	371.9	368.7	365.1	363.3	361.4	361.6	361.6	363.5	365.1	368.2
67.5°	337.1	333.6	331.6	328.7	327.5	325.6	325.5	324.9	326.2	326.8	328.9
70°	305.5	302.0	299.4	296.6	295.1	293.4	293.4	293.4	294.9	296.3	299.0
72.5°	286.0	282.6	280.3	277.9	276.4	275.0	274.7	274.6	275.6	276.3	278.2
75°	260.1	257.4	256.1	253.8	252.7	251.0	250.7	250.0	250.5	250.6	252.0
77.5°	228.7	226.2	225.1	222.8	221.8	220.0	219.8	218.9	219.3	219.1	220.1
80°	193.1	190.7	190.0	188.2	187.7	186.0	185.7	184.7	185.0	184.2	184.6
82.5°	153.1	151.0	150.5	148.7	148.7	147.2	147.1	145.5	145.5	144.2	142.0
85°	107.8	106.3	105.6	104.1	103.7	102.5	101.8	100.4	99.9	98.9	98.6
87.5°	56.9	55.9	55.1	54.4	53.1	50.8	50.6	49.1	49.3	48.1	48.2
90°	24.2	22.5	21.7	20.0	19.2	17.8	17.2	17.6	18.3	18.9	19.6
92.5°	25.5	24.5	23.5	22.5	21.5	20.5	19.5	20.5	21.5	22.5	23.5
95°	28.9	28.0	27.1	26.2	25.3	24.4	23.6	24.4	25.3	26.3	27.1
97.5°	32.2	31.6	31.1	30.5	30.0	29.5	28.9	29.5	30.0	30.5	31.1
100°	37.1	36.5	35.8	35.1	34.5	33.8	33.2	33.9	34.6	35.2	35.9
102.5°	65.0	60.9	56.8	52.7	48.6	44.5	40.4	44.5	48.6	52.8	56.9
105°	156.6	142.8	129.0	115.2	101.4	87.6	73.8	87.7	101.5	115.3	129.1
107.5°	316.5	292.3	268.0	243.8	219.4	195.2	170.8	195.3	219.5	243.9	268.1
110°	470.5	449.4	428.5	407.5	386.6	365.5	344.6	365.5	386.6	407.5	428.6



TEST NUMBER: P1444500
 CATALOG NUMBER: EHBR1-12-UNV-TA-L835-UPL18

CANDELA DISTRIBUTION (continued):

	165°	167.5°	170°	172.5°	175°	177.5°	180°	182.5°	185°	187.5°	190°
112.5°	553.5	540.8	527.9	515.2	502.4	489.7	476.9	489.7	502.5	515.4	528.1
115°	570.4	563.6	556.9	550.2	543.3	536.6	529.7	536.7	543.5	550.4	557.2
117.5°	548.8	546.4	544.1	541.6	539.1	536.7	534.2	536.8	539.3	541.9	544.4
120°	505.1	505.3	505.5	505.6	505.8	505.9	505.9	505.9	505.9	505.9	505.9
122.5°	457.4	459.0	460.6	462.2	463.8	465.4	466.9	465.5	464.1	462.8	461.2
125°	413.3	415.1	416.6	418.3	419.8	421.6	423.0	421.8	420.3	418.9	417.3
127.5°	375.6	377.2	378.5	380.2	381.4	382.9	384.2	383.1	381.8	380.7	379.4
130°	344.4	345.6	346.4	347.6	348.6	349.5	350.4	349.7	349.0	348.3	347.3
132.5°	321.5	322.3	323.1	323.8	324.4	325.1	325.7	325.3	324.9	324.4	324.0
135°	303.5	303.9	304.5	304.8	305.2	305.5	305.7	305.8	305.7	305.6	305.4
137.5°	288.5	288.7	288.8	288.8	288.8	288.8	288.8	289.1	289.3	289.7	289.8
140°	278.2	278.5	278.6	278.7	278.8	278.8	278.7	279.1	279.3	279.5	279.6
142.5°	267.9	268.1	268.3	268.4	268.4	268.4	268.4	268.7	268.9	269.2	269.3
145°	260.2	260.2	260.2	260.2	260.1	260.0	259.8	260.2	260.6	260.9	261.3
147.5°	252.7	252.7	252.7	252.6	252.5	252.4	252.2	252.6	253.0	253.3	253.7
150°	246.7	246.9	247.1	247.3	247.3	247.4	247.4	247.5	247.7	247.9	248.0
152.5°	241.0	241.1	241.2	241.3	241.5	241.5	241.5	241.8	242.0	242.2	242.3
155°	235.5	235.8	236.0	236.2	236.4	236.6	236.8	236.9	237.0	237.1	237.2
157.5°	230.9	231.2	231.4	231.5	231.7	231.9	232.1	232.3	232.4	232.6	232.6
160°	227.3	227.6	227.7	228.0	228.2	228.3	228.4	228.6	228.8	228.9	229.0
162.5°	224.9	225.0	225.1	225.4	225.5	225.7	225.9	226.1	226.3	226.4	226.5
165°	221.7	221.9	222.3	222.6	222.9	223.2	223.4	223.5	223.5	223.6	223.6
167.5°	221.3	221.6	221.8	222.1	222.3	222.6	222.8	222.9	222.9	222.9	223.0
170°	220.4	220.6	221.0	221.2	221.5	221.7	221.8	221.8	221.8	221.9	221.9
172.5°	219.7	220.1	220.4	220.7	221.1	221.4	221.7	221.7	221.5	221.3	221.1
175°	219.4	219.7	220.0	220.3	220.5	220.9	221.2	221.0	220.9	220.7	220.6
177.5°	221.3	221.7	222.0	222.3	222.6	223.0	223.4	223.1	222.7	222.5	222.2
180°	219.5	219.5	219.5	219.5	219.5	219.5	219.5	219.5	219.5	219.5	219.5



TEST NUMBER: P1444500
 CATALOG NUMBER: EHBR1-12-UNV-TA-L835-UPL18

CANDELA DISTRIBUTION (continued):

	192.5°	195°	197.5°	200°	202.5°	205°	207.5°	210°	212.5°	215°	217.5°
0°	10277.8	10277.8	10277.8	10277.8	10277.8	10277.8	10277.8	10277.8	10277.8	10277.8	10277.8
2.5°	10258.6	10263.7	10271.6	10278.8	10289.4	10297.9	10310.6	10320.2	10334.5	10343.8	10359.4
5°	10259.6	10279.6	10306.0	10331.8	10362.7	10390.8	10425.7	10455.5	10490.6	10519.2	10555.2
7.5°	10274.0	10312.8	10359.1	10405.9	10458.7	10508.2	10563.9	10614.3	10669.4	10716.1	10767.1
10°	10284.8	10344.4	10412.8	10481.6	10554.0	10621.3	10689.2	10747.9	10802.7	10847.9	10887.8
12.5°	10270.2	10352.4	10440.2	10524.9	10605.4	10675.0	10733.5	10778.6	10809.8	10830.9	10835.9
15°	10220.9	10319.9	10415.3	10499.6	10566.4	10617.9	10644.6	10657.1	10643.7	10621.4	10572.5
17.5°	10128.8	10233.1	10318.4	10384.9	10420.2	10434.3	10412.2	10373.7	10298.6	10215.2	10094.8
20°	9959.8	10057.1	10119.0	10155.2	10145.8	10110.8	10027.4	9926.0	9776.1	9616.2	9405.3
22.5°	9663.5	9748.6	9781.5	9784.1	9726.6	9639.1	9488.6	9314.8	9078.2	8832.2	8529.7
25°	9218.8	9293.2	9298.5	9269.2	9163.7	9021.9	8801.0	8555.0	8233.5	7905.8	7526.8
27.5°	8615.6	8686.9	8669.5	8614.9	8468.5	8278.8	7996.0	7678.1	7281.8	6894.7	6475.4
30°	7857.2	7933.6	7913.1	7843.1	7668.9	7444.7	7112.0	6742.6	6302.6	5889.2	5464.3
32.5°	6949.9	7046.3	7032.2	6965.7	6783.9	6544.1	6182.9	5791.3	5341.1	4933.6	4520.3
35°	5918.4	6035.6	6041.7	5998.2	5829.5	5592.4	5235.8	4856.7	4425.4	4041.1	3659.2
37.5°	4807.2	4943.1	4971.0	4959.2	4819.4	4610.2	4285.2	3945.1	3563.2	3226.2	2899.6
40°	3689.8	3827.4	3875.1	3889.2	3786.1	3624.0	3357.3	3082.8	2771.4	2498.4	2239.0
42.5°	2670.8	2792.7	2838.9	2867.8	2803.5	2695.4	2500.8	2301.5	2073.3	1876.5	1687.7
45°	1854.9	1941.2	1976.3	2005.5	1970.4	1909.4	1786.5	1661.9	1511.3	1382.6	1260.8
47.5°	1296.9	1344.5	1367.6	1381.8	1368.2	1336.3	1269.5	1197.3	1112.3	1037.1	964.8
50°	961.3	986.6	998.7	1006.9	997.0	979.3	943.1	903.8	857.1	814.6	772.9
52.5°	761.7	776.3	783.5	787.9	782.2	771.4	750.4	727.0	699.0	672.7	658.9
55°	641.8	641.0	657.6	649.6	657.6	639.7	636.0	610.3	587.0	570.7	553.0
57.5°	529.2	536.8	540.0	543.6	541.2	537.9	529.0	519.8	507.6	497.3	486.4
60°	458.1	464.4	467.8	471.3	471.1	469.9	464.7	459.2	451.6	445.4	438.9
62.5°	409.2	414.5	418.0	421.4	421.7	421.2	417.2	413.4	408.2	404.3	399.8
65°	370.6	374.4	376.7	379.4	379.3	378.5	375.0	371.8	367.6	364.9	361.5
67.5°	330.3	333.1	334.9	337.5	338.0	338.1	336.2	334.7	332.6	331.8	330.7
70°	301.6	305.0	308.0	311.2	313.0	313.8	313.0	312.2	311.0	310.5	309.6
72.5°	279.8	282.7	285.1	288.0	289.6	290.8	290.2	289.7	288.7	288.6	287.9
75°	252.9	254.9	256.2	258.4	259.3	260.3	259.9	260.1	259.9	260.6	260.6
77.5°	220.5	221.9	222.5	224.2	224.3	225.6	225.9	227.5	228.6	231.1	232.3
80°	183.9	184.9	184.9	186.6	187.3	189.6	190.6	193.1	194.3	196.5	196.7
82.5°	142.9	141.9	142.9	142.2	144.3	146.8	147.2	149.3	149.8	151.3	150.2
85°	97.7	97.6	96.8	96.9	96.3	96.6	96.2	96.6	96.2	96.3	95.2
87.5°	46.8	47.2	46.3	46.5	45.6	46.1	45.2	45.9	44.8	45.0	43.4
90°	20.3	20.9	21.5	22.3	23.2	25.0	27.0	28.8	30.9	32.8	34.8
92.5°	24.5	25.5	26.5	27.5	28.5	31.5	34.4	37.4	40.5	43.3	46.3
95°	28.1	29.0	29.9	30.8	31.7	36.0	40.3	44.6	49.0	53.2	57.6
97.5°	31.7	32.3	32.9	33.4	33.9	39.0	44.1	49.2	54.2	59.3	64.4
100°	36.6	37.2	37.8	38.6	39.3	51.0	62.7	74.4	86.1	97.7	109.5
102.5°	61.0	65.1	69.2	73.4	77.5	105.9	134.2	162.6	190.9	219.2	247.6
105°	142.9	156.7	170.6	184.4	198.2	241.1	284.1	327.1	369.9	412.9	455.8
107.5°	292.4	316.7	341.1	365.4	389.7	430.1	470.5	510.8	551.2	591.6	631.9
110°	449.6	470.6	491.6	512.6	533.6	565.6	597.8	629.9	661.9	694.1	726.1



TEST NUMBER: P1444500
 CATALOG NUMBER: EHBR1-12-UNV-TA-L835-UPL18

CANDELA DISTRIBUTION (continued):

	192.5°	195°	197.5°	200°	202.5°	205°	207.5°	210°	212.5°	215°	217.5°
112.5°	541.0	553.8	566.5	579.3	592.1	615.7	639.3	662.8	686.5	709.9	733.4
115°	564.0	570.8	577.7	584.4	591.3	605.6	619.9	634.1	648.4	662.5	676.9
117.5°	546.9	549.4	551.9	554.3	556.8	564.1	571.6	579.0	586.4	593.8	601.2
120°	505.9	505.9	505.8	505.6	505.5	507.8	510.3	512.7	515.1	517.5	519.8
122.5°	459.7	458.1	456.7	455.0	453.5	452.8	452.2	451.6	451.1	450.3	449.7
125°	415.9	414.3	412.7	411.1	409.5	407.6	405.8	403.8	402.0	400.2	398.2
127.5°	378.2	376.7	375.4	374.0	372.6	370.5	368.4	366.2	364.1	362.0	359.7
130°	346.6	345.7	344.8	343.6	342.8	340.8	339.1	337.2	335.4	333.6	331.8
132.5°	323.5	322.9	322.2	321.5	320.8	319.2	317.7	316.0	314.4	312.8	311.2
135°	305.1	304.8	304.6	304.3	303.9	302.7	301.6	300.4	299.3	298.1	296.9
137.5°	289.9	289.9	290.0	289.9	289.9	288.9	288.0	287.1	286.2	285.3	284.3
140°	279.7	279.7	279.9	279.8	279.8	278.8	277.8	276.7	275.8	274.7	273.6
142.5°	269.4	269.5	269.6	269.6	269.6	268.7	268.0	267.2	266.5	265.7	264.9
145°	261.4	261.7	261.9	262.0	262.2	261.2	260.2	259.3	258.4	257.3	256.5
147.5°	253.9	254.1	254.3	254.6	254.8	253.9	253.2	252.3	251.5	250.7	250.1
150°	248.1	248.1	248.3	248.3	248.3	247.4	246.6	245.7	244.9	244.0	243.2
152.5°	242.5	242.6	242.7	242.7	242.8	241.9	241.0	240.1	239.1	238.0	237.2
155°	237.3	237.3	237.3	237.3	237.3	236.4	235.5	234.6	233.8	232.8	231.9
157.5°	232.7	232.8	232.9	232.9	233.0	232.2	231.4	230.7	229.9	229.0	228.2
160°	229.1	229.2	229.3	229.4	229.4	228.7	228.2	227.5	226.9	226.1	225.4
162.5°	226.6	226.8	226.8	226.9	227.0	226.3	225.6	225.0	224.4	223.7	223.0
165°	223.5	223.5	223.5	223.4	223.4	222.9	222.6	222.1	221.8	221.2	220.8
167.5°	222.9	222.8	222.8	222.8	222.8	222.5	222.2	221.8	221.5	221.2	220.8
170°	221.8	221.8	221.8	221.8	221.7	221.4	221.1	220.8	220.5	220.1	219.7
172.5°	221.1	220.9	220.7	220.6	220.4	220.2	219.9	219.7	219.6	219.3	219.1
175°	220.3	220.2	220.0	219.8	219.6	219.6	219.5	219.4	219.3	219.1	219.0
177.5°	221.8	221.7	221.4	221.0	220.8	220.7	220.6	220.4	220.4	220.3	220.2
180°	219.5	219.5	219.5	219.5	219.5	219.5	219.5	219.5	219.5	219.5	219.5



TEST NUMBER: P1444500
 CATALOG NUMBER: EHBR1-12-UNV-TA-L835-UPL18

CANDELA DISTRIBUTION (continued):

	220°	222.5°	225°	227.5°	230°	232.5°	235°	237.5°	240°	242.5°	245°
0°	10277.8	10277.8	10277.8	10277.8	10277.8	10277.8	10277.8	10277.8	10277.8	10277.8	10277.8
2.5°	10369.0	10305.0	10296.6	10301.1	10311.7	10315.7	10327.2	10330.4	10342.1	10344.9	10356.0
5°	10583.0	10498.4	10502.5	10522.9	10553.7	10572.1	10602.4	10618.2	10647.1	10660.3	10686.4
7.5°	10808.6	10742.1	10762.9	10797.2	10839.3	10868.5	10904.8	10928.6	10959.9	10979.4	11004.5
10°	10919.4	10901.1	10923.9	10951.0	10975.0	10993.8	11009.3	11021.6	11029.7	11037.3	11040.6
12.5°	10835.1	10863.2	10867.1	10864.5	10848.6	10836.5	10809.1	10790.6	10757.6	10737.6	10698.4
15°	10522.6	10584.6	10550.2	10498.3	10422.3	10358.8	10269.3	10202.7	10109.5	10046.2	9952.7
17.5°	9974.2	10052.3	9962.9	9842.7	9689.8	9559.0	9396.0	9266.8	9104.7	8986.9	8835.8
20°	9202.1	9275.2	9115.7	8916.4	8679.8	8480.7	8245.9	8058.6	7840.4	7678.1	7482.3
22.5°	8240.8	8292.9	8068.1	7799.5	7498.1	7249.4	6968.7	6744.1	6495.0	6309.5	6100.7
25°	7177.3	7191.4	6921.8	6612.3	6276.4	5996.8	5697.1	5461.0	5207.1	5018.9	4814.1
27.5°	6103.9	6083.3	5791.9	5463.8	5110.4	4819.9	4527.5	4306.3	4083.8	3914.5	3737.9
30°	5090.8	5040.9	4738.3	4401.0	4058.1	3797.6	3554.9	3377.3	3200.3	3065.9	2924.2
32.5°	4161.7	4091.3	3796.8	3480.8	3191.8	2990.8	2810.8	2676.4	2533.5	2420.0	2301.1
35°	3338.8	3263.7	3002.9	2735.0	2516.3	2368.1	2226.6	2116.4	1995.1	1899.3	1796.0
37.5°	2632.5	2571.0	2352.6	2141.7	1976.3	1861.5	1745.6	1655.4	1555.2	1513.0	1402.7
40°	2032.3	1989.4	1818.5	1663.1	1538.8	1484.9	1367.3	1283.0	1208.1	1146.4	1086.5
42.5°	1585.2	1570.0	1403.7	1282.5	1195.1	1127.1	1061.5	1008.3	956.5	914.0	873.7
45°	1163.4	1151.3	1077.4	1007.5	947.9	900.4	856.1	819.5	785.6	757.6	732.1
47.5°	905.9	902.0	859.5	816.1	778.6	748.1	719.3	695.0	672.5	653.8	647.7
50°	736.8	736.3	711.3	684.6	657.8	640.1	621.8	607.5	593.0	581.8	569.9
52.5°	626.0	623.3	606.5	589.9	574.1	562.5	550.7	541.5	532.0	525.0	517.7
55°	538.9	541.8	532.0	522.1	512.3	505.1	496.8	490.7	484.2	479.9	475.4
57.5°	478.4	482.2	477.2	471.5	465.5	460.8	455.0	450.9	446.5	443.7	441.2
60°	434.5	438.6	436.5	433.7	429.9	427.1	423.5	421.2	418.4	416.8	415.4
62.5°	397.2	402.3	401.5	400.3	397.8	396.3	394.2	393.3	391.3	390.7	390.0
65°	359.9	365.6	365.5	364.9	363.6	363.1	361.9	361.7	360.7	361.1	361.0
67.5°	330.5	335.6	336.7	337.5	337.5	337.8	337.7	338.2	338.2	338.9	339.4
70°	309.4	313.0	313.8	314.6	314.8	315.5	315.5	316.0	315.8	316.5	316.6
72.5°	288.1	292.7	293.5	294.2	294.2	294.9	294.5	294.4	293.5	293.3	292.6
75°	261.5	267.4	268.7	269.6	269.7	270.2	269.5	268.9	267.4	266.7	265.7
77.5°	233.7	239.9	240.8	241.0	240.6	240.7	239.0	237.8	235.9	235.1	234.1
80°	197.6	206.6	207.3	206.7	205.4	205.1	203.5	202.5	200.1	199.3	198.4
82.5°	150.4	161.0	162.4	163.1	161.9	162.2	160.7	160.0	157.9	157.5	156.1
85°	94.9	105.5	107.2	106.9	105.9	105.6	104.7	105.0	104.8	105.4	105.7
87.5°	43.6	53.8	56.3	55.6	55.5	54.7	53.0	53.7	54.7	55.3	55.4
90°	36.7	41.8	43.6	42.2	39.9	38.2	35.9	34.5	32.3	30.8	28.7
92.5°	49.4	52.3	55.3	52.7	49.9	47.3	44.7	42.0	39.4	36.7	34.0
95°	61.9	66.1	70.4	66.9	63.2	59.7	56.1	52.7	49.1	45.6	42.0
97.5°	69.4	74.5	79.5	76.0	72.4	68.8	65.3	61.8	58.2	54.7	51.1
100°	121.1	132.7	144.4	134.3	124.3	114.2	104.1	94.1	84.0	73.9	63.9
102.5°	276.0	304.2	332.5	307.1	281.7	256.2	230.8	205.4	180.0	154.5	129.1
105°	498.7	541.4	584.3	545.4	506.6	467.8	429.1	390.2	351.4	312.6	273.8
107.5°	672.2	712.4	752.6	717.5	682.5	647.4	612.3	577.3	542.2	507.1	472.1
110°	758.0	789.9	821.8	798.2	774.7	751.2	727.6	704.1	680.6	657.2	633.6



TEST NUMBER: P1444500
 CATALOG NUMBER: EHBR1-12-UNV-TA-L835-UPL18

CANDELA DISTRIBUTION (continued):

	220°	222.5°	225°	227.5°	230°	232.5°	235°	237.5°	240°	242.5°	245°
112.5°	757.0	780.1	803.4	789.7	776.0	762.3	748.5	734.9	721.2	707.5	693.9
115°	691.0	704.7	718.8	713.3	708.0	702.6	697.3	691.9	686.6	681.3	676.0
117.5°	608.4	615.2	622.4	621.4	620.6	619.6	618.7	617.9	617.1	616.2	615.4
120°	522.2	523.9	526.0	526.7	527.7	528.4	529.4	530.2	531.2	531.9	532.9
122.5°	449.0	447.7	446.7	447.5	448.4	449.0	449.9	450.7	451.6	452.3	453.3
125°	396.4	393.6	391.4	390.7	390.0	389.1	388.4	387.6	386.9	386.1	385.4
127.5°	357.7	354.6	352.2	350.2	348.2	346.2	344.2	342.2	340.2	338.2	336.3
130°	330.0	327.1	325.1	322.5	320.0	317.4	314.8	312.2	309.6	307.2	304.6
132.5°	309.6	307.0	305.1	302.6	300.3	297.8	295.2	292.8	290.4	287.8	285.5
135°	295.7	293.5	292.0	289.8	287.7	285.5	283.2	280.9	278.8	276.5	274.3
137.5°	283.4	281.3	280.1	278.4	276.6	274.8	273.1	271.4	269.7	267.7	266.1
140°	272.7	270.3	269.1	268.2	267.2	266.4	265.4	264.4	263.4	262.6	261.6
142.5°	264.1	262.1	261.0	260.5	260.0	259.4	258.9	258.3	257.6	257.0	256.5
145°	255.5	253.1	251.9	251.8	252.0	252.0	252.0	252.1	252.1	252.1	252.2
147.5°	249.2	246.8	245.6	245.8	246.1	246.2	246.5	246.6	246.9	247.0	247.3
150°	242.2	239.5	238.1	238.5	238.8	239.2	239.6	240.0	240.3	240.7	241.0
152.5°	236.2	233.0	231.4	231.8	232.2	232.6	233.0	233.4	233.8	234.3	234.6
155°	231.0	227.5	225.9	226.0	226.2	226.4	226.5	226.8	227.0	227.2	227.6
157.5°	227.4	223.9	222.4	222.3	222.4	222.4	222.5	222.7	222.8	222.9	223.1
160°	224.9	221.4	219.9	219.8	219.9	219.9	219.9	220.1	220.2	220.3	220.4
162.5°	222.3	218.9	217.5	217.5	217.5	217.5	217.6	217.6	217.7	217.8	217.9
165°	220.2	217.4	216.2	216.2	216.4	216.5	216.6	216.9	217.0	217.2	217.5
167.5°	220.5	217.9	217.0	216.9	216.7	216.6	216.6	216.5	216.5	216.4	216.4
170°	219.3	217.3	216.5	216.5	216.6	216.7	216.7	216.8	216.8	217.0	217.1
172.5°	218.8	217.3	216.8	216.9	217.2	217.4	217.6	217.8	218.0	218.2	218.5
175°	218.9	218.1	217.9	217.9	218.0	218.1	218.2	218.4	218.5	218.6	218.7
177.5°	220.0	219.7	219.5	219.5	219.5	219.5	219.5	219.5	219.5	219.6	219.6
180°	219.5	219.5	219.5	219.5	219.5	219.5	219.5	219.5	219.5	219.5	219.5



TEST NUMBER: P1444500
 CATALOG NUMBER: EHBR1-12-UNV-TA-L835-UPL18

CANDELA DISTRIBUTION (continued):

	247.5°	250°	252.5°	255°	257.5°	260°	262.5°	265°	267.5°	270°	272.5°
0°	10277.8	10277.8	10277.8	10277.8	10277.8	10277.8	10277.8	10277.8	10277.8	10277.8	10277.8
2.5°	10358.2	10370.2	10369.3	10380.6	10380.0	10390.6	10388.5	10397.7	10395.6	10403.4	10398.8
5°	10697.9	10720.9	10728.5	10749.2	10753.5	10772.0	10772.4	10787.1	10785.4	10796.9	10790.8
7.5°	11019.3	11040.8	11051.0	11067.1	11075.1	11088.4	11093.6	11104.6	11107.2	11113.7	11113.5
10°	11046.4	11046.4	11051.3	11049.1	11053.7	11051.1	11056.6	11054.5	11062.7	11060.6	11066.7
12.5°	10681.4	10645.3	10632.0	10599.5	10592.3	10564.4	10566.4	10548.5	10557.1	10546.2	10564.9
15°	9897.0	9813.0	9771.5	9698.4	9675.5	9617.8	9613.1	9574.7	9585.1	9565.0	9594.3
17.5°	8737.9	8605.6	8533.0	8426.3	8384.0	8302.3	8285.9	8236.5	8244.2	8219.4	8254.8
20°	7355.9	7196.0	7104.5	6981.1	6926.1	6828.6	6802.9	6747.6	6754.6	6729.8	6769.9
22.5°	5958.1	5790.8	5687.4	5558.1	5487.9	5396.2	5368.8	5313.3	5316.4	5293.3	5331.7
25°	4673.7	4513.2	4412.8	4295.4	4234.4	4150.5	4121.6	4071.7	4074.5	4055.4	4090.0
27.5°	3615.4	3483.7	3399.8	3301.4	3246.7	3177.6	3149.5	3107.6	3107.4	3093.5	3122.4
30°	2825.3	2715.4	2640.0	2554.3	2502.9	2440.6	2413.4	2376.0	2374.3	2364.3	2387.3
32.5°	2212.1	2114.4	2045.6	1970.2	1924.1	1870.6	1844.9	1814.7	1812.0	1803.0	1821.8
35°	1719.6	1637.3	1578.3	1514.6	1519.4	1440.6	1453.7	1392.4	1375.8	1372.1	1386.2
37.5°	1329.1	1265.4	1217.3	1169.7	1137.5	1104.2	1086.3	1070.2	1068.3	1066.8	1076.6
40°	1040.3	995.7	960.8	928.1	905.9	885.7	874.4	865.6	863.4	862.3	868.2
42.5°	841.9	811.9	789.4	769.4	755.9	744.9	738.8	733.8	732.2	732.3	735.7
45°	711.3	693.1	678.5	666.2	657.6	661.4	650.2	656.0	648.4	656.3	651.1
47.5°	626.5	610.9	601.9	593.1	588.0	583.7	583.9	584.0	585.7	585.8	587.6
50°	560.9	551.9	545.7	540.1	537.4	535.1	535.9	536.5	538.1	538.2	539.5
52.5°	512.4	506.5	502.7	499.3	498.1	496.8	497.3	497.1	497.8	497.5	498.5
55°	473.0	470.2	469.0	467.7	467.9	467.6	467.7	466.6	465.8	464.8	465.7
57.5°	440.6	440.2	441.0	441.6	443.0	443.6	443.9	442.4	441.1	439.8	440.6
60°	415.7	416.3	418.2	419.8	422.0	422.9	423.5	422.8	421.8	420.7	421.3
62.5°	391.0	392.0	394.3	396.2	398.7	400.1	401.5	401.6	402.0	401.6	402.0
65°	362.4	363.6	365.7	367.3	369.7	370.9	372.3	372.6	373.5	373.3	374.0
67.5°	340.7	341.8	343.6	345.0	347.1	348.4	349.7	349.7	350.1	350.0	350.7
70°	317.6	318.1	319.8	320.9	323.1	324.3	325.8	326.3	327.2	327.3	328.1
72.5°	292.9	292.7	293.6	294.2	295.7	296.8	298.7	299.8	301.4	301.7	302.3
75°	266.1	265.8	266.9	267.4	268.8	269.7	272.0	273.3	275.9	276.8	276.5
77.5°	234.9	235.4	237.6	238.7	240.6	241.8	244.6	246.9	251.4	253.5	251.4
80°	200.1	200.6	202.8	204.0	206.3	207.9	211.1	213.7	217.8	218.6	217.5
82.5°	157.3	157.5	159.4	160.3	163.4	165.6	169.7	171.7	174.2	173.9	173.6
85°	107.2	108.7	111.2	113.6	117.5	121.1	124.9	128.0	125.9	129.3	125.4
87.5°	57.3	57.2	60.5	60.0	65.4	68.5	71.7	73.2	75.0	74.7	74.7
90°	27.4	26.1	25.6	24.0	23.9	22.3	22.3	20.8	21.0	19.4	21.7
92.5°	31.4	30.0	28.5	27.1	25.7	24.2	22.8	21.4	20.0	18.5	20.0
95°	38.5	37.1	35.9	34.5	33.2	31.9	30.5	29.2	27.9	26.6	28.2
97.5°	47.6	46.8	46.1	45.3	44.5	43.8	43.1	42.3	41.5	40.7	41.8
100°	53.8	53.8	53.8	53.8	53.7	53.7	53.7	53.7	53.7	53.7	54.6
102.5°	103.7	101.1	98.6	96.0	93.5	90.9	88.3	85.8	83.3	80.8	84.6
105°	235.0	225.1	215.2	205.3	195.2	185.3	175.3	165.4	155.4	145.5	155.8
107.5°	437.1	418.9	400.7	382.7	364.5	346.3	328.2	310.2	292.0	273.9	290.1
110°	610.2	591.0	571.8	552.6	533.3	514.0	494.8	475.6	456.4	437.2	452.6



TEST NUMBER: P1444500
 CATALOG NUMBER: EHBR1-12-UNV-TA-L835-UPL18

CANDELA DISTRIBUTION (continued):

	247.5°	250°	252.5°	255°	257.5°	260°	262.5°	265°	267.5°	270°	272.5°
112.5°	680.2	667.7	655.4	642.9	630.5	618.1	605.8	593.4	581.1	568.7	576.1
115°	670.6	664.8	658.8	652.9	647.0	641.1	635.2	629.4	623.5	617.6	618.1
117.5°	614.5	612.6	610.6	608.6	606.8	604.8	602.9	601.1	599.0	597.3	593.1
120°	533.9	534.5	535.0	535.8	536.5	537.2	537.8	538.5	539.3	540.1	534.5
122.5°	454.1	455.5	457.1	458.6	460.1	461.8	463.4	465.0	466.7	468.3	462.7
125°	384.6	386.1	387.6	389.1	390.6	392.1	393.8	395.4	397.0	398.7	394.0
127.5°	334.3	334.9	335.4	336.0	336.6	337.2	337.9	338.6	339.4	340.2	337.2
130°	302.0	301.6	301.2	300.7	300.2	300.0	299.7	299.3	299.1	298.9	297.6
132.5°	282.9	281.8	280.7	279.5	278.5	277.4	276.4	275.6	274.6	273.8	273.3
135°	272.1	270.4	268.9	267.3	265.7	264.4	262.9	261.5	260.2	258.9	259.1
137.5°	264.2	262.7	261.1	259.6	257.9	256.6	255.1	253.7	252.4	251.1	251.5
140°	260.6	259.0	257.4	255.9	254.4	253.0	251.5	250.2	248.8	247.6	247.8
142.5°	255.9	254.4	253.0	251.6	250.3	248.9	247.6	246.4	245.2	244.1	244.3
145°	252.2	251.1	250.1	249.0	248.0	247.1	246.0	245.2	244.3	243.6	243.7
147.5°	247.4	246.6	245.7	244.9	244.2	243.6	242.8	242.1	241.4	240.9	241.0
150°	241.3	240.9	240.3	239.8	239.3	238.8	238.4	237.9	237.6	237.2	237.1
152.5°	235.0	234.6	234.1	233.6	233.2	232.7	232.3	231.9	231.6	231.2	231.2
155°	227.8	227.6	227.3	227.1	226.9	226.7	226.5	226.5	226.2	226.1	226.1
157.5°	223.2	223.1	223.0	223.1	223.0	222.9	222.8	222.9	222.8	222.9	223.0
160°	220.6	220.5	220.3	220.2	220.0	219.9	219.8	219.7	219.6	219.5	219.7
162.5°	218.0	218.2	218.2	218.3	218.4	218.5	218.6	218.6	218.7	218.9	219.0
165°	217.7	217.6	217.6	217.4	217.4	217.4	217.4	217.3	217.3	217.4	217.6
167.5°	216.4	216.5	216.6	216.7	216.8	217.1	217.3	217.5	217.6	217.9	218.1
170°	217.1	217.1	217.1	217.1	217.1	217.2	217.2	217.2	217.3	217.4	217.5
172.5°	218.6	218.6	218.6	218.6	218.6	218.6	218.6	218.6	218.6	218.7	218.8
175°	218.7	218.9	219.0	219.2	219.3	219.4	219.5	219.7	219.8	219.9	219.9
177.5°	219.6	219.6	219.6	219.6	219.6	219.7	219.7	219.7	219.7	219.6	219.7
180°	219.5	219.5	219.5	219.5	219.5	219.5	219.5	219.5	219.5	219.5	219.5



TEST NUMBER: P1444500
 CATALOG NUMBER: EHBR1-12-UNV-TA-L835-UPL18

CANDELA DISTRIBUTION (continued):

	275°	277.5°	280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°
0°	10277.8	10277.8	10277.8	10277.8	10277.8	10277.8	10277.8	10277.8	10277.8	10277.8	10277.8
2.5°	10406.4	10401.2	10406.5	10401.2	10406.5	10400.1	10404.5	10397.5	10399.3	10392.0	10393.8
5°	10799.9	10791.7	10796.0	10785.3	10786.4	10772.0	10771.8	10755.0	10750.6	10731.5	10723.1
7.5°	11118.2	11115.4	11117.0	11110.0	11109.2	11099.3	11094.7	11080.8	11072.1	11054.5	11042.5
10°	11067.7	11075.9	11078.0	11086.3	11088.0	11096.1	11097.9	11106.0	11107.8	11113.8	11113.9
12.5°	10564.0	10591.5	10598.1	10632.2	10646.5	10685.4	10706.3	10749.2	10774.6	10817.5	10843.7
15°	9593.5	9641.2	9660.2	9726.6	9763.4	9841.0	9889.6	9978.7	10041.6	10136.1	10203.6
17.5°	8257.9	8324.5	8354.5	8444.6	8503.4	8617.9	8700.3	8836.1	8940.1	9091.0	9210.6
20°	6776.8	6850.8	6891.6	6994.3	7063.7	7197.4	7300.4	7467.2	7606.4	7797.7	7961.2
22.5°	5343.9	5414.3	5459.5	5564.1	5642.2	5781.7	5896.8	6072.9	6228.8	6444.3	6640.3
25°	4103.0	4167.6	4208.5	4303.1	4376.5	4504.7	4614.5	4783.9	4936.5	5152.7	5353.7
27.5°	3136.7	3190.8	3230.3	3310.9	3375.5	3484.2	3578.7	3718.7	3850.2	4037.1	4216.2
30°	2401.5	2449.4	2487.8	2558.0	2618.0	2712.2	2795.2	2912.8	3021.6	3170.4	3312.8
32.5°	1835.1	1876.3	1910.5	1972.0	2026.4	2111.3	2186.1	2289.2	2382.6	2508.7	2625.9
35°	1399.2	1480.3	1474.6	1559.4	1573.0	1633.9	1700.7	1790.8	1873.5	1980.8	2080.5
37.5°	1086.0	1108.9	1133.3	1170.7	1210.2	1265.5	1322.0	1432.0	1472.5	1553.5	1636.0
40°	875.8	891.2	907.4	932.7	960.2	999.3	1040.3	1092.9	1146.7	1212.4	1279.6
42.5°	740.4	749.1	759.4	774.2	791.3	816.0	843.5	879.1	916.6	962.8	1010.1
45°	661.5	657.3	660.4	668.4	678.6	693.7	711.0	733.0	757.5	787.4	819.3
47.5°	588.0	589.6	590.5	594.9	600.4	610.5	620.9	636.0	664.9	673.6	691.0
50°	539.4	540.2	539.9	542.1	544.9	551.4	558.2	568.4	578.5	592.0	604.8
52.5°	498.7	499.7	499.6	501.1	502.6	506.7	511.0	518.2	524.9	533.4	540.7
55°	466.5	468.0	468.7	469.9	470.7	472.8	474.5	477.9	480.7	485.6	490.0
57.5°	441.8	443.9	444.9	445.3	444.5	444.4	443.8	444.5	445.1	447.7	450.2
60°	422.3	424.0	424.3	424.0	422.5	421.3	419.5	418.9	418.6	419.8	421.2
62.5°	401.9	402.6	402.1	401.6	399.8	398.7	396.8	396.1	395.4	396.4	397.1
65°	373.8	374.3	373.8	373.4	371.8	370.9	369.3	368.7	367.9	368.1	368.0
67.5°	350.8	351.4	351.0	350.5	349.5	348.9	347.7	346.9	345.9	345.4	344.6
70°	328.0	328.4	327.8	327.3	326.1	325.6	324.5	324.2	323.4	323.2	322.3
72.5°	301.7	301.8	300.9	300.7	299.7	299.6	299.2	299.6	299.6	300.0	299.8
75°	275.0	274.6	273.4	273.2	272.5	272.9	272.4	273.0	273.0	274.0	274.2
77.5°	248.0	246.7	244.4	243.5	242.0	241.8	241.0	241.5	241.3	242.5	243.0
80°	214.1	212.3	209.5	208.3	206.5	206.2	205.5	206.2	205.9	207.2	208.2
82.5°	170.9	169.4	166.6	165.5	163.5	163.7	162.8	163.7	163.6	165.5	166.7
85°	126.4	125.5	122.5	119.8	116.9	115.2	113.5	113.3	112.7	113.5	114.2
87.5°	73.0	72.1	69.8	68.3	63.1	63.3	61.3	61.2	60.7	60.2	61.3
90°	22.1	24.1	24.7	26.7	27.3	29.5	30.3	32.3	33.1	35.4	36.3
92.5°	21.4	22.8	24.2	25.7	27.1	28.5	30.0	31.4	34.5	37.5	40.7
95°	29.9	31.5	33.2	34.9	36.6	38.2	39.9	41.5	46.1	50.5	55.1
97.5°	43.0	44.0	45.1	46.3	47.3	48.4	49.5	50.6	55.5	60.3	65.2
100°	55.5	56.3	57.2	58.2	59.0	59.9	60.8	61.7	71.2	80.6	89.9
102.5°	88.2	92.0	95.8	99.5	103.4	107.1	110.8	114.6	136.1	157.7	179.2
105°	166.1	176.4	186.7	196.9	207.2	217.5	227.8	238.0	272.5	307.0	341.5
107.5°	306.4	322.6	338.9	355.2	371.5	387.7	403.9	420.2	453.8	487.4	521.0
110°	468.1	483.5	499.1	514.6	530.1	545.5	561.0	576.5	596.7	616.8	637.0



TEST NUMBER: P1444500
 CATALOG NUMBER: EHBR1-12-UNV-TA-L835-UPL18

CANDELA DISTRIBUTION (continued):

	275°	277.5°	280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°
112.5°	583.7	591.2	598.7	606.3	613.9	621.4	629.0	636.6	646.5	656.6	666.6
115°	618.6	619.1	619.5	620.1	620.5	621.0	621.5	622.1	625.3	628.4	631.5
117.5°	588.9	584.8	580.6	576.4	572.4	568.3	564.1	560.1	559.4	558.7	558.0
120°	529.0	523.4	517.9	512.3	506.8	501.3	495.9	490.4	487.5	484.6	481.8
122.5°	457.2	451.6	446.1	440.5	435.0	429.5	424.2	418.8	416.7	414.6	412.7
125°	389.2	384.6	380.0	375.4	371.0	366.4	362.0	357.5	357.2	356.8	356.7
127.5°	334.4	331.5	328.7	326.0	323.2	320.5	317.8	315.1	316.2	317.2	318.1
130°	296.2	295.0	293.8	292.4	291.4	290.3	289.1	288.0	289.9	291.8	293.8
132.5°	273.1	272.9	272.7	272.4	272.3	272.2	272.1	272.0	274.2	276.4	278.7
135°	259.3	259.6	260.0	260.3	260.8	261.1	261.6	262.0	264.2	266.3	268.5
137.5°	252.1	252.5	253.2	253.7	254.3	254.9	255.7	256.3	258.0	259.6	261.3
140°	248.2	248.6	249.1	249.5	250.0	250.5	251.1	251.5	252.9	254.2	255.5
142.5°	244.7	245.0	245.5	246.0	246.5	246.9	247.4	247.9	248.9	249.8	250.7
145°	244.0	244.2	244.4	244.8	245.1	245.5	245.8	246.2	246.8	247.3	247.8
147.5°	241.0	241.1	241.3	241.5	241.8	242.0	242.2	242.4	242.7	243.0	243.5
150°	237.2	237.2	237.3	237.2	237.3	237.4	237.6	237.6	237.8	238.1	238.4
152.5°	231.3	231.3	231.3	231.2	231.3	231.4	231.4	231.4	231.7	232.0	232.3
155°	226.3	226.4	226.6	226.7	226.9	227.0	227.2	227.3	227.5	227.6	227.8
157.5°	223.1	223.2	223.4	223.5	223.7	223.8	223.9	224.1	224.3	224.4	224.5
160°	219.9	220.2	220.4	220.8	221.0	221.2	221.5	221.7	221.8	221.9	222.1
162.5°	219.2	219.3	219.5	219.6	219.7	219.9	220.0	220.2	220.5	220.7	220.9
165°	217.8	218.2	218.5	218.6	218.8	219.2	219.4	219.7	219.8	219.9	220.1
167.5°	218.3	218.5	218.7	219.0	219.3	219.5	219.8	220.0	220.1	220.2	220.4
170°	217.8	218.0	218.2	218.5	218.6	218.8	219.1	219.2	219.5	219.7	219.9
172.5°	219.0	219.1	219.3	219.5	219.7	219.9	220.1	220.3	220.5	220.7	220.8
175°	219.9	219.9	219.9	220.0	220.0	220.0	220.0	220.1	220.2	220.2	220.2
177.5°	219.8	220.0	220.1	220.2	220.3	220.5	220.6	220.7	220.7	220.7	220.7
180°	219.5	219.5	219.5	219.5	219.5	219.5	219.5	219.5	219.5	219.5	219.5



TEST NUMBER: P1444500
 CATALOG NUMBER: EHBR1-12-UNV-TA-L835-UPL18

CANDELA DISTRIBUTION (continued):

	302.5°	305°	307.5°	310°	312.5°	315°	317.5°	320°	322.5°	325°	327.5°
0°	10277.8	10277.8	10277.8	10277.8	10277.8	10277.8	10277.8	10277.8	10277.8	10277.8	10277.8
2.5°	10386.6	10387.1	10378.7	10378.2	10370.4	10369.4	10361.7	10359.4	10353.2	10351.0	10344.6
5°	10701.7	10691.5	10668.0	10654.1	10630.7	10615.3	10590.1	10573.6	10549.3	10530.9	10506.4
7.5°	11020.4	11004.6	10978.1	10956.6	10924.3	10898.5	10860.7	10829.7	10788.7	10753.2	10710.1
10°	11113.9	11111.5	11104.7	11094.9	11079.9	11063.0	11037.2	11010.3	10974.5	10935.4	10887.6
12.5°	10883.9	10908.7	10942.6	10962.7	10987.1	10997.8	11007.8	11005.3	10998.7	10979.0	10951.4
15°	10301.3	10371.1	10463.5	10535.1	10617.5	10677.4	10743.5	10784.7	10825.8	10844.8	10856.5
17.5°	9374.5	9506.6	9672.3	9809.6	9968.1	10095.4	10234.8	10339.8	10447.9	10525.2	10595.1
20°	8184.1	8375.5	8609.8	8816.9	9057.6	9266.8	9496.1	9684.3	9878.3	10030.0	10173.7
22.5°	6892.8	7120.2	7403.5	7665.9	7976.3	8255.2	8569.9	8843.7	9129.7	9368.6	9599.5
25°	5623.1	5872.4	6182.2	6475.0	6826.5	7150.9	7524.2	7865.5	8235.1	8555.9	8872.9
27.5°	4463.6	4708.5	5024.8	5336.4	5708.1	6053.7	6453.6	6829.7	7250.5	7638.6	8035.5
30°	3510.7	3718.3	4001.9	4303.9	4670.4	5022.1	5426.4	5813.1	6250.9	6674.6	7121.8
32.5°	2781.5	2939.6	3162.6	3417.8	3756.0	4090.9	4475.8	4849.2	5280.3	5708.3	6173.4
35°	2209.0	2332.3	2502.3	2701.6	2988.0	3276.6	3617.1	3956.5	4358.7	4764.9	5216.9
37.5°	1741.9	1842.0	1975.1	2124.8	2354.5	2591.4	2870.6	3152.0	3501.5	3861.5	4271.2
40°	1360.2	1441.2	1544.9	1656.5	1830.0	2012.5	2228.4	2446.6	2727.4	3021.7	3360.7
42.5°	1068.5	1128.3	1201.6	1283.1	1444.9	1541.9	1688.3	1846.2	2052.6	2266.2	2521.1
45°	858.1	898.9	949.7	1004.4	1079.6	1161.7	1262.0	1367.2	1563.2	1659.4	1814.5
47.5°	716.6	744.0	776.4	810.8	855.1	902.9	962.3	1023.1	1101.8	1183.2	1278.7
50°	621.3	649.2	660.3	678.2	703.8	731.1	764.6	798.1	840.3	883.0	932.2
52.5°	550.6	559.7	571.8	583.1	598.9	630.1	640.1	657.6	681.3	704.4	730.2
55°	496.5	502.5	510.3	517.2	526.8	536.0	549.2	560.9	576.6	590.6	607.8
57.5°	454.6	458.3	463.8	468.2	474.4	479.7	487.4	493.7	502.8	510.7	521.1
60°	424.0	426.5	430.1	433.1	437.0	439.7	443.6	446.6	451.4	455.3	461.2
62.5°	399.0	400.4	402.8	404.4	406.9	408.3	410.3	411.7	414.3	416.4	419.6
65°	369.1	369.4	371.0	371.8	373.7	374.5	376.1	376.7	378.9	380.4	383.2
67.5°	344.6	343.9	343.9	343.3	343.6	343.1	343.2	342.6	343.4	343.9	346.1
70°	322.2	321.2	320.9	319.9	319.6	318.5	318.2	317.3	317.2	316.9	317.6
72.5°	300.4	300.1	300.2	299.4	299.3	298.6	298.6	298.3	298.7	298.9	299.9
75°	275.3	275.3	275.9	275.2	275.4	274.8	275.0	274.4	274.7	274.6	275.6
77.5°	244.7	245.4	246.8	246.5	246.9	246.2	246.5	245.7	246.0	245.4	245.8
80°	210.3	211.9	213.6	213.6	214.4	213.8	214.5	213.8	214.1	213.1	212.9
82.5°	169.6	170.8	172.8	172.8	174.5	174.8	176.7	176.6	177.7	177.1	176.5
85°	115.9	116.7	118.5	119.4	121.1	122.2	123.9	124.7	123.3	125.8	123.9
87.5°	60.5	62.7	61.5	64.5	63.8	66.7	66.1	68.8	68.3	70.7	70.4
90°	39.0	40.1	42.9	44.0	47.2	48.8	48.9	47.1	47.2	45.5	45.5
92.5°	43.7	46.8	49.9	53.0	56.1	59.2	56.3	53.5	50.6	47.8	44.9
95°	59.6	64.1	68.6	73.2	77.7	82.2	77.4	72.5	67.7	62.8	57.9
97.5°	70.0	75.0	79.8	84.6	89.5	94.3	88.6	82.9	77.1	71.5	65.7
100°	99.3	108.7	118.1	127.4	136.9	146.3	135.6	124.9	114.3	103.6	92.9
102.5°	200.8	222.4	244.0	265.6	287.1	308.6	285.8	263.3	240.5	217.7	195.0
105°	375.9	410.5	445.0	479.5	514.0	548.5	511.8	474.8	438.0	401.2	364.3
107.5°	554.6	588.3	622.0	655.6	689.2	722.9	685.5	648.1	610.8	573.4	536.0
110°	657.2	677.4	697.5	717.8	738.0	758.2	731.0	703.7	676.4	649.0	621.7



TEST NUMBER: P1444500
 CATALOG NUMBER: EHBR1-12-UNV-TA-L835-UPL18

CANDELA DISTRIBUTION (continued):

	302.5°	305°	307.5°	310°	312.5°	315°	317.5°	320°	322.5°	325°	327.5°
112.5°	676.7	686.8	696.9	707.0	717.0	727.1	707.5	688.1	668.5	649.0	629.5
115°	634.7	637.8	641.0	644.1	647.3	650.5	637.2	624.0	610.9	597.7	584.4
117.5°	557.3	556.7	556.0	555.4	554.6	554.0	546.6	539.2	531.6	524.3	516.7
120°	479.0	476.2	473.4	470.6	467.6	464.8	461.6	458.3	455.1	451.9	448.5
122.5°	410.5	408.7	406.7	404.6	402.5	400.5	399.1	397.8	396.5	395.1	393.9
125°	356.5	356.2	355.9	355.8	355.5	355.2	354.5	353.7	352.9	352.2	351.4
127.5°	319.1	320.2	321.1	322.1	323.1	324.0	323.7	323.6	323.2	322.9	322.6
130°	295.6	297.5	299.3	301.3	303.0	304.9	304.5	304.0	303.4	302.9	302.4
132.5°	280.9	283.1	285.3	287.5	289.7	291.9	291.3	290.7	290.0	289.5	288.8
135°	270.5	272.7	274.7	276.9	278.9	280.9	280.2	279.5	278.7	278.1	277.4
137.5°	263.0	264.6	266.2	267.8	269.4	271.0	270.2	269.6	268.8	268.1	267.4
140°	256.8	258.1	259.3	260.6	261.9	263.2	262.3	261.4	260.5	259.7	258.8
142.5°	251.6	252.6	253.5	254.3	255.2	256.2	255.0	253.9	252.8	251.7	250.6
145°	248.5	249.0	249.6	250.2	250.6	251.2	249.9	248.7	247.4	246.1	244.9
147.5°	243.8	244.1	244.2	244.6	244.8	245.2	244.0	242.8	241.6	240.4	239.2
150°	238.6	239.1	239.3	239.5	239.8	240.0	238.7	237.6	236.3	235.0	234.0
152.5°	232.5	232.9	233.1	233.3	233.5	233.7	232.5	231.4	230.3	229.1	228.0
155°	227.9	228.1	228.2	228.2	228.3	228.4	227.5	226.6	225.6	224.7	223.7
157.5°	224.6	224.8	224.9	225.0	225.0	225.1	224.4	223.7	222.9	222.2	221.5
160°	222.2	222.3	222.4	222.5	222.6	222.7	222.0	221.5	220.9	220.2	219.6
162.5°	221.1	221.5	221.7	221.8	222.0	222.1	221.5	220.8	220.0	219.2	218.6
165°	220.2	220.3	220.4	220.5	220.6	220.7	220.1	219.6	219.1	218.6	218.1
167.5°	220.5	220.6	220.7	220.8	220.8	220.9	220.4	220.0	219.4	218.8	218.4
170°	220.1	220.4	220.6	220.7	220.9	221.0	220.6	220.2	219.7	219.4	218.9
172.5°	221.0	221.3	221.4	221.6	221.7	221.8	221.4	221.0	220.5	220.1	219.6
175°	220.2	220.3	220.4	220.4	220.4	220.4	220.1	219.7	219.4	219.0	218.7
177.5°	220.7	220.7	220.7	220.7	220.7	220.7	220.5	220.2	220.0	219.8	219.4
180°	219.5	219.5	219.5	219.5	219.5	219.5	219.5	219.5	219.5	219.5	219.5



TEST NUMBER: P1444500
 CATALOG NUMBER: EHBR1-12-UNV-TA-L835-UPL18

CANDELA DISTRIBUTION (continued):

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
0°	10277.8	10277.8	10277.8	10277.8	10277.8	10277.8	10277.8	10277.8	10277.8	10277.8	10277.8
2.5°	10342.4	10337.9	10335.0	10331.3	10329.1	10326.2	10324.1	10322.3	10320.8	10319.5	10318.5
5°	10487.8	10464.7	10446.8	10427.3	10411.4	10395.4	10383.2	10373.0	10366.0	10360.7	10357.6
7.5°	10673.0	10630.6	10593.0	10553.3	10517.9	10483.0	10452.9	10426.9	10407.4	10394.8	10387.3
10°	10838.3	10781.7	10725.6	10666.7	10610.7	10556.5	10506.4	10462.4	10427.6	10404.4	10390.9
12.5°	10912.4	10864.2	10807.0	10742.9	10674.5	10605.1	10537.5	10476.6	10425.5	10391.1	10371.3
15°	10847.1	10827.4	10788.5	10738.8	10673.8	10602.1	10522.8	10448.1	10379.6	10335.1	10309.3
17.5°	10634.8	10662.4	10659.5	10640.5	10593.7	10533.4	10452.5	10368.7	10282.9	10223.5	10191.0
20°	10276.4	10363.4	10407.4	10430.1	10411.7	10372.6	10299.4	10214.4	10114.4	10036.7	9989.3
22.5°	9772.8	9926.3	10022.0	10091.9	10106.7	10093.5	10028.8	9947.9	9836.4	9743.1	9673.1
25°	9124.5	9349.4	9500.5	9619.0	9665.1	9676.9	9621.9	9541.5	9417.2	9308.5	9212.4
27.5°	8360.9	8653.1	8854.9	9014.1	9086.0	9117.1	9066.5	8984.5	8837.4	8707.7	8582.1
30°	7501.3	7847.9	8090.9	8281.8	8369.4	8410.6	8356.8	8265.2	8094.1	7937.9	7779.7
32.5°	6581.1	6960.4	7225.2	7432.5	7519.3	7558.1	7487.7	7384.9	7187.1	7003.2	6818.7
35°	5617.8	6000.6	6267.6	6469.5	6542.2	6565.6	6475.6	6356.7	6137.6	5935.7	5734.5
37.5°	4634.8	4991.0	5233.7	5414.7	5459.8	5463.8	5355.4	5224.1	4993.8	4794.8	4594.5
40°	3660.3	3960.7	4156.7	4301.6	4317.2	4303.3	4185.5	4053.3	3837.9	3659.5	3483.7
42.5°	2742.4	2969.2	3109.0	3208.3	3202.4	3174.8	3066.8	2953.2	2775.4	2639.6	2501.3
45°	1956.0	2105.5	2187.3	2245.4	2226.7	2200.5	2116.4	2036.8	1916.0	1828.2	1735.3
47.5°	1358.9	1537.4	1506.3	1620.0	1522.1	1586.8	1452.1	1377.8	1313.7	1267.1	1214.5
50°	972.8	1013.7	1033.5	1047.0	1039.8	1029.9	1005.7	984.1	954.8	933.5	908.5
52.5°	751.3	771.7	783.0	791.1	789.5	785.9	775.3	765.7	751.9	742.9	732.1
55°	636.4	636.7	657.3	648.5	661.5	646.3	652.3	635.3	638.0	623.5	613.7
57.5°	528.8	537.2	541.0	544.6	543.6	543.0	538.9	536.8	532.2	530.8	527.5
60°	465.1	469.6	470.5	472.1	470.8	470.2	467.0	465.8	462.8	462.2	460.0
62.5°	421.5	423.7	423.7	423.7	422.0	420.1	416.6	414.8	412.2	411.6	410.3
65°	385.1	387.5	387.8	388.3	387.0	385.6	382.5	380.5	377.8	376.7	375.2
67.5°	347.5	349.9	350.8	352.1	351.3	351.0	348.9	348.1	346.3	345.9	344.6
70°	317.9	319.0	318.9	318.9	317.3	315.7	313.3	312.1	310.2	309.8	308.6
72.5°	300.4	301.2	300.7	300.0	297.9	295.6	292.7	290.6	288.2	286.7	285.0
75°	275.7	276.6	276.1	275.7	273.7	272.3	269.9	268.8	267.0	266.5	265.4
77.5°	245.3	245.8	244.8	244.7	243.2	242.3	240.6	240.3	239.0	239.0	237.8
80°	211.6	211.3	209.7	209.3	207.9	207.5	206.1	206.2	205.3	205.7	204.9
82.5°	174.0	173.1	171.0	170.5	168.7	168.5	167.6	168.4	167.7	168.7	168.1
85°	124.8	125.0	124.1	124.1	123.6	123.7	123.7	124.2	124.3	125.2	125.1
87.5°	69.5	70.6	70.4	71.3	71.3	72.2	72.6	74.1	74.3	75.7	75.7
90°	43.7	44.0	42.3	42.6	41.7	42.7	42.2	43.1	42.3	43.1	42.0
92.5°	42.1	39.2	36.4	33.5	32.0	30.4	29.3	27.6	26.3	24.7	23.4
95°	53.0	48.2	43.3	38.5	36.8	35.2	33.5	31.9	30.2	28.5	26.9
97.5°	60.0	54.2	48.5	42.8	41.3	39.9	38.4	36.9	35.5	34.0	32.7
100°	82.1	71.5	60.7	50.0	48.8	47.6	46.3	45.2	43.9	42.7	41.4
102.5°	172.3	149.5	126.8	104.0	99.8	95.4	91.1	86.8	82.4	78.2	73.9
105°	327.5	290.7	253.7	216.9	205.2	193.4	181.8	170.1	158.3	146.6	135.0
107.5°	498.6	461.2	423.8	386.4	364.8	343.1	321.4	299.8	278.2	256.6	234.8
110°	594.4	567.0	539.7	512.3	495.0	477.5	460.1	442.6	425.3	407.8	390.4



TEST NUMBER: P1444500
 CATALOG NUMBER: EHBR1-12-UNV-TA-L835-UPL18

CANDELA DISTRIBUTION (continued):

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
112.5°	609.9	590.2	570.7	551.0	543.2	535.2	527.4	519.4	511.5	503.5	495.6
115°	571.1	557.9	544.6	531.3	528.4	525.7	522.9	520.0	517.2	514.3	511.4
117.5°	509.3	501.8	494.3	486.8	487.1	487.6	488.0	488.5	488.8	489.2	489.5
120°	445.3	442.1	438.8	435.6	437.9	440.2	442.5	444.8	447.1	449.3	451.5
122.5°	392.5	391.1	389.8	388.3	391.1	394.1	396.8	399.5	402.3	404.9	407.5
125°	350.7	349.8	349.1	348.3	351.1	354.0	356.8	359.4	362.3	365.0	367.6
127.5°	322.3	321.9	321.7	321.3	323.4	325.2	327.2	329.1	330.9	332.7	334.6
130°	301.9	301.4	300.9	300.4	302.1	303.9	305.6	307.3	309.0	310.6	312.1
132.5°	288.3	287.6	287.0	286.4	287.6	288.8	290.1	291.1	292.3	293.3	294.3
135°	276.7	275.9	275.2	274.5	275.6	276.7	277.8	278.8	279.8	280.7	281.7
137.5°	266.7	265.9	265.2	264.4	265.5	266.5	267.4	268.3	269.2	270.0	270.8
140°	257.9	257.0	256.2	255.3	256.2	257.0	257.9	258.8	259.5	260.1	260.9
142.5°	249.5	248.2	247.4	246.1	246.8	247.4	247.9	248.4	249.1	249.5	250.0
145°	243.7	242.3	241.0	239.8	240.2	240.7	241.1	241.6	242.0	242.4	242.7
147.5°	238.0	236.8	235.6	234.4	234.7	235.0	235.4	235.6	236.0	236.2	236.5
150°	232.6	231.4	230.2	228.8	229.1	229.4	229.7	230.0	230.2	230.4	230.7
152.5°	226.8	225.6	224.5	223.2	223.4	223.7	223.9	224.1	224.4	224.6	224.7
155°	222.7	221.7	220.7	219.7	219.9	220.1	220.4	220.5	220.6	220.8	221.0
157.5°	220.7	219.8	219.1	218.3	218.4	218.4	218.5	218.4	218.6	218.6	218.6
160°	218.9	218.3	217.6	216.8	216.8	216.9	217.0	217.0	217.0	216.9	217.0
162.5°	217.8	217.0	216.2	215.4	215.4	215.4	215.5	215.4	215.5	215.5	215.4
165°	217.5	217.0	216.4	215.7	215.7	215.6	215.6	215.4	215.4	215.3	215.1
167.5°	217.8	217.2	216.7	216.0	216.1	216.1	216.1	216.1	216.3	216.2	216.2
170°	218.6	218.0	217.6	217.1	217.0	217.0	216.9	216.8	216.7	216.6	216.5
172.5°	219.2	218.7	218.4	217.8	217.8	217.7	217.7	217.6	217.5	217.4	217.4
175°	218.4	218.1	217.6	217.3	217.2	217.2	217.2	217.1	217.0	217.0	216.9
177.5°	219.2	219.0	218.7	218.6	218.5	218.5	218.5	218.4	218.4	218.4	218.4
180°	219.5	219.5	219.5	219.5	219.5	219.5	219.5	219.5	219.5	219.5	219.5



TEST NUMBER: P1444500
CATALOG NUMBER: EHBR1-12-UNV-TA-L835-UPL18

CANDELA DISTRIBUTION (continued):

	357.5°	360°
0°	10277.8	10277.8
2.5°	10317.6	10317.1
5°	10355.9	10355.4
7.5°	10385.1	10384.9
10°	10388.6	10390.4
12.5°	10367.9	10369.3
15°	10307.4	10310.2
17.5°	10191.6	10195.3
20°	9992.2	9996.1
22.5°	9669.3	9671.0
25°	9200.0	9193.4
27.5°	8560.1	8548.6
30°	7746.6	7735.4
32.5°	6776.7	6769.7
35°	5684.9	5680.5
37.5°	4535.4	4526.5
40°	3419.5	3393.5
42.5°	2440.7	2395.2
45°	1686.8	1632.7
47.5°	1177.5	1144.2
50°	892.5	881.8
52.5°	727.3	724.8
55°	613.7	612.5
57.5°	528.2	527.9
60°	461.2	461.1
62.5°	411.1	411.3
65°	375.9	376.0
67.5°	344.9	344.7
70°	309.1	308.8
72.5°	284.4	284.0
75°	265.4	265.1
77.5°	238.2	237.8
80°	205.4	204.9
82.5°	168.9	168.3
85°	126.1	126.1
87.5°	77.1	77.1
90°	42.7	41.4
92.5°	22.0	20.7
95°	25.2	23.6
97.5°	31.2	29.8
100°	40.2	39.0
102.5°	69.5	65.3
105°	123.2	111.5
107.5°	213.2	191.6
110°	372.9	355.5



TEST NUMBER: P1444500
CATALOG NUMBER: EHBR1-12-UNV-TA-L835-UPL18

CANDELA DISTRIBUTION (continued):

	357.5°	360°
112.5°	487.6	479.7
115°	508.6	505.7
117.5°	489.9	490.1
120°	453.6	455.8
122.5°	410.2	412.8
125°	370.2	372.8
127.5°	336.3	337.9
130°	313.5	315.0
132.5°	295.3	296.1
135°	282.5	283.2
137.5°	271.5	272.2
140°	261.4	262.1
142.5°	250.4	250.7
145°	243.1	243.3
147.5°	236.5	236.7
150°	230.8	230.9
152.5°	224.9	225.0
155°	221.0	221.1
157.5°	218.5	218.4
160°	216.9	216.9
162.5°	215.4	215.4
165°	214.9	214.8
167.5°	216.1	216.1
170°	216.4	216.3
172.5°	217.3	217.2
175°	216.9	216.9
177.5°	218.4	218.3
180°	219.5	219.5

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

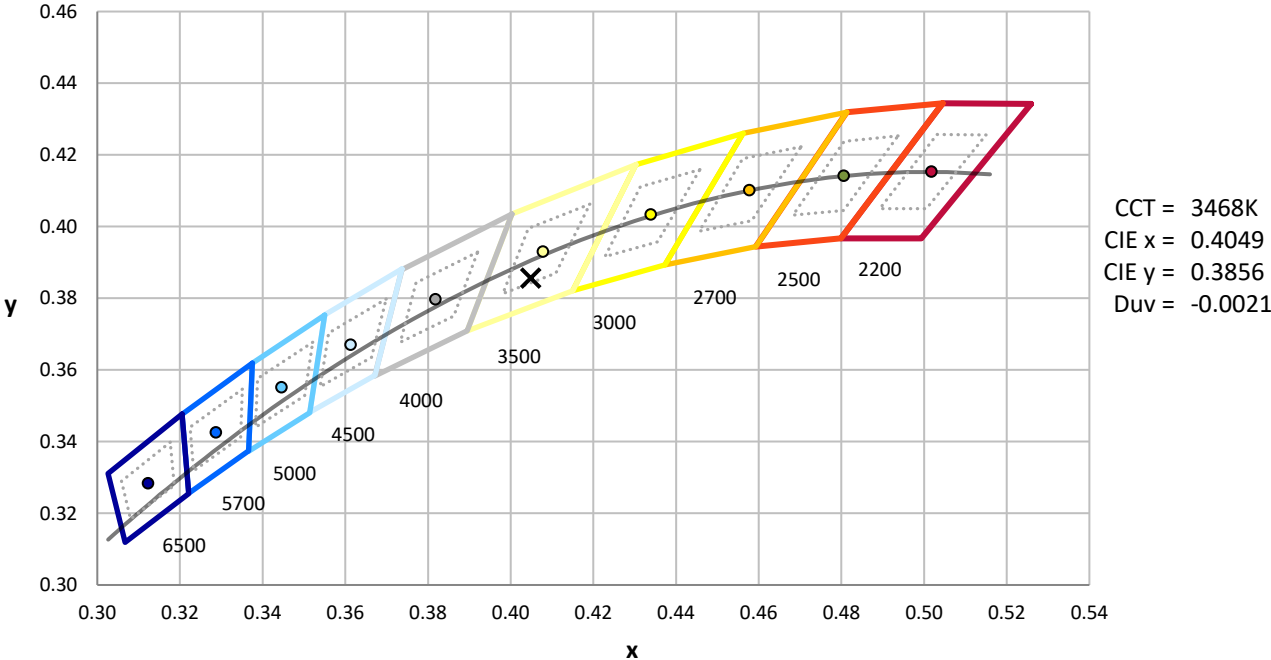
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	6/16/2025	12/16/2025
Power Meter	XITRON INXT2011004	1/21/2025	1/21/2026
AC Power Source	CHROMA 61603 IN0063	10/22/2024	10/22/2025
DC Power Source	AGILENT E3634A IN0208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

REPORT NUMBER: SP1-2506-472-3

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

REPORT NUMBER: SP1-2506-472-3

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

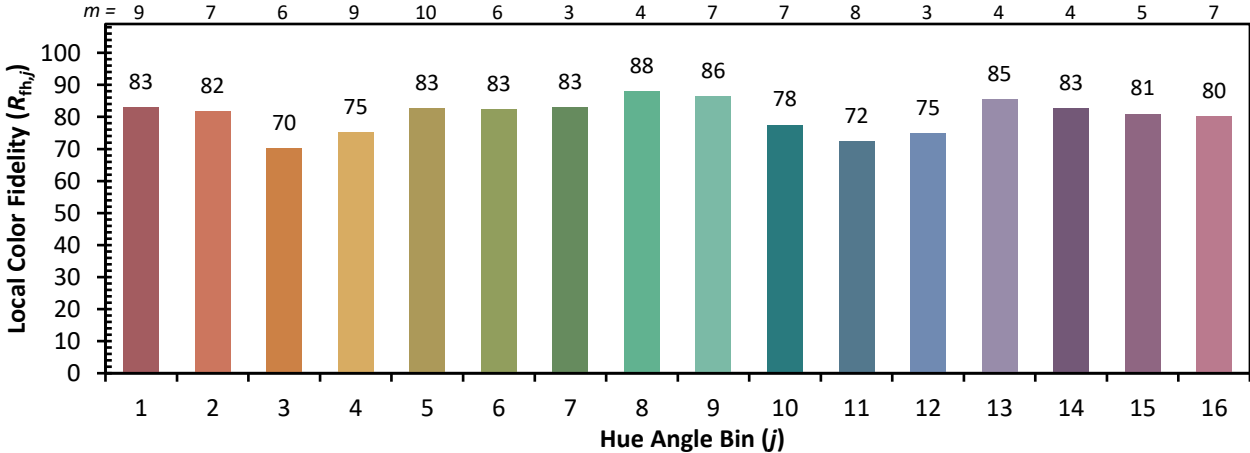


Individual Sample Fidelity Index ($R_{f,i}$)

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)