

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: P1444498

Luminaire Tested: EHBR1-12-UNV-TA-L835-UPL12

Issue Date: 5/1/2026

Test Information

Test Method: LM-79-2019
Report Number: P1444498
REPORT IS A COMBINATION OF REPORTS P1444300 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-UPL12
Description: Elevate Round Highbay at, 12000 lumens, 3500K 80CRI LEDs with TA lens
Light Source: -
Ballast/Driver: -

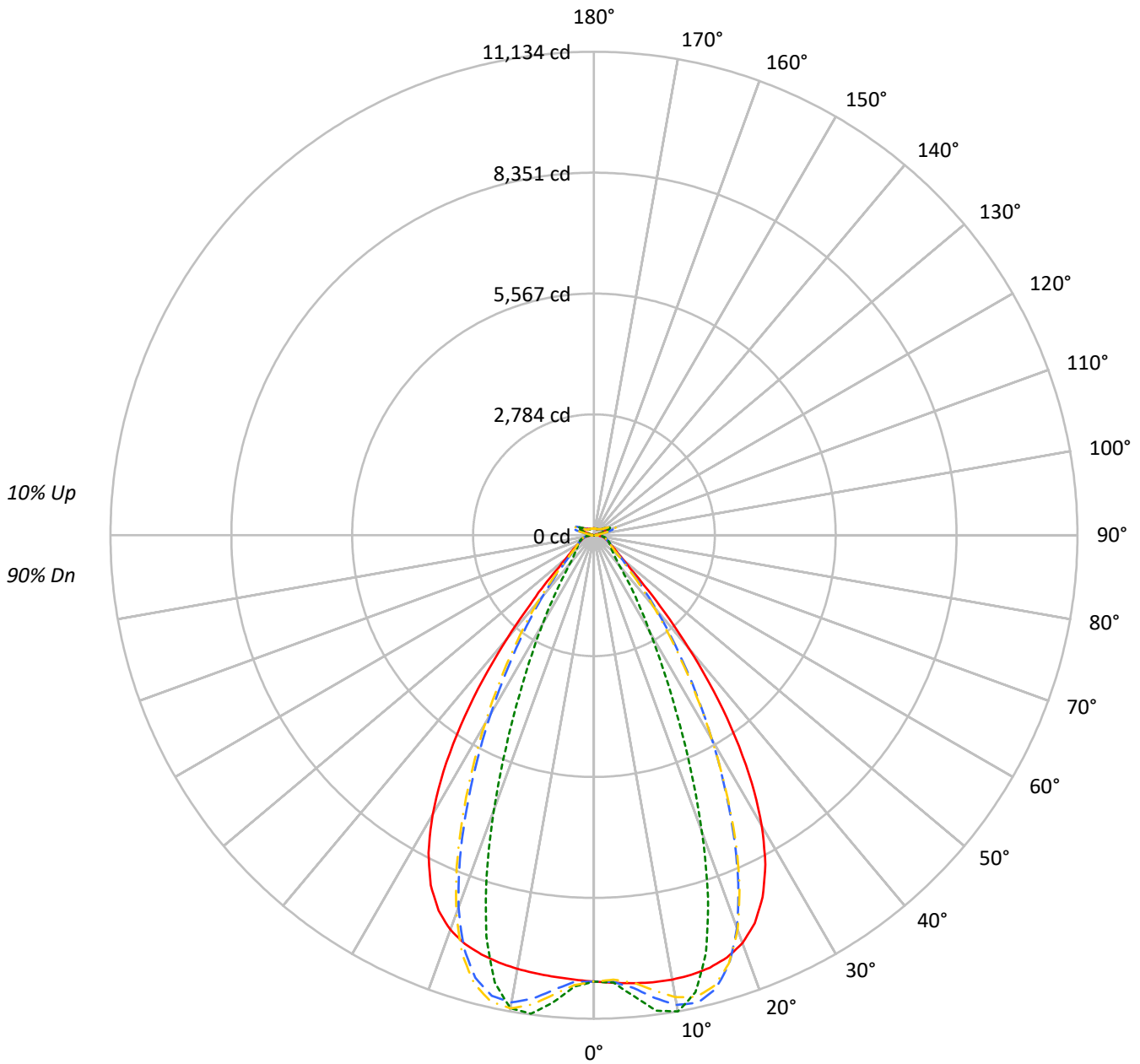
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13071.4 lumens
Efficiency: N/A
Efficacy: 181.3 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 0.77 / 0.88
Luminous Opening: Vertical Cylinder (Dia: 1.71' x H: 0.1')
CIE Type: Direct

Input Watts (W): 72.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P1444498
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Luminous Intensity Polar Plot



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



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				20
RC	80				70				50				30				10				0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	117	117	117	117	113	113	113	113	106	106	106	99	99	99	93	93	93	93	93	93	90
1	110	106	103	100	106	103	100	98	97	95	93	92	90	88	87	86	84	84	84	84	82
2	103	97	92	88	100	94	90	86	89	86	83	85	82	79	81	78	76	76	76	76	74
3	96	89	83	78	93	87	81	77	83	78	74	79	75	72	75	72	70	70	70	70	68
4	91	82	75	70	88	80	74	69	76	71	68	73	69	66	70	67	64	64	64	64	62
5	85	76	69	64	83	74	68	63	71	66	62	68	64	60	66	62	59	59	59	59	57
6	80	70	63	59	78	69	63	58	66	61	57	64	59	56	62	58	55	55	55	55	53
7	76	65	59	54	74	64	58	53	62	57	52	60	55	52	58	54	51	51	51	51	49
8	72	61	54	50	70	60	54	50	58	53	49	56	52	48	55	50	47	47	47	47	46
9	68	57	51	46	66	56	50	46	55	49	45	53	48	45	52	47	44	44	44	44	43
10	65	54	48	43	63	53	47	43	52	46	42	50	45	42	49	44	41	41	41	41	40

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	7.7
10°-20°	2849.4	21.8
20°-30°	3245.2	24.8
30°-40°	2332.5	17.8
40°-50°	1075.8	8.2
50°-60°	514.8	3.9
60°-70°	375.6	2.9
70°-80°	285.4	2.2
80°-90°	131.9	1.0
90°-100°	35.0	0.3
100°-110°	207.4	1.6
110°-120°	383.2	2.9
120°-130°	232.9	1.8
130°-140°	147.8	1.1
140°-150°	108.0	0.8
150°-160°	74.3	0.6
160°-170°	44.3	0.3
170°-180°	15.1	0.1
0°-30°	7107.5	54.4
0°-40°	9440.1	72.2
0°-60°	11030.6	84.4
0°-90°	11823.5	90.5
90°-120°	625.7	4.8
90°-150°	1114.4	8.5
90°-180°	1248.0	9.5
0°-180°	13071.4	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°	37	46	13	15	37	23
95°	16	18	16	18	16	15
105°	74	96	50	96	74	98
115°	334	406	350	406	334	308
125°	249	263	282	263	249	227
135°	193	173	208	174	193	151
145°	169	166	180	167	169	107
155°	156	157	167	159	156	73
165°	154	154	160	155	154	44
175°	157	158	160	158	157	15
180°	158	158	158	158	158	



TEST NUMBER: P1444498
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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°	36.9	39.1	39.9	42.3	43.1	45.3	46.1	48.4	49.3	51.7	53.1
92.5°	14.2	15.1	15.9	17.0	17.9	19.1	20.2	21.2	22.1	23.3	25.2
95°	16.1	17.2	18.2	19.3	20.4	21.5	22.6	23.7	24.7	25.8	29.0
97.5°	20.2	21.1	22.0	23.0	23.9	24.8	25.8	26.8	27.6	28.6	32.4
100°	26.3	27.1	27.8	28.7	29.5	30.3	31.0	31.9	32.7	33.5	40.4
102.5°	43.6	46.4	49.3	52.1	54.9	57.8	60.6	63.4	66.2	69.0	83.9
105°	74.2	81.7	89.5	97.1	104.7	112.5	120.1	127.7	135.4	143.0	167.2
107.5°	126.8	140.9	155.1	169.3	183.5	197.7	211.9	226.0	240.2	254.3	278.9
110°	234.6	245.9	257.3	268.7	280.1	291.5	302.9	314.2	325.6	337.0	354.9



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CANDELA DISTRIBUTION (continued):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
112.5°	316.3	321.4	326.6	331.7	336.9	342.0	347.1	352.3	357.4	362.5	375.3
115°	333.7	335.5	337.3	339.1	340.9	342.8	344.5	346.3	348.1	349.7	358.4
117.5°	324.0	323.6	323.4	323.0	322.6	322.3	322.0	321.5	321.2	320.8	325.8
120°	302.0	300.5	298.9	297.3	295.7	294.1	292.5	290.9	289.2	287.5	289.6
122.5°	274.3	272.5	270.6	268.7	266.7	264.9	263.0	260.9	259.0	257.0	257.8
125°	248.8	246.9	245.0	243.1	241.0	239.2	237.3	235.2	233.2	231.2	231.6
127.5°	226.6	225.2	224.0	222.5	221.2	219.7	218.3	216.8	215.4	213.9	214.0
130°	212.2	211.1	209.8	208.7	207.3	206.0	204.7	203.4	202.1	200.7	200.9
132.5°	200.5	199.7	198.9	198.0	197.0	196.0	195.1	194.0	193.1	192.1	192.3
135°	192.8	192.0	191.2	190.3	189.5	188.6	187.6	186.7	185.8	184.7	185.1
137.5°	186.2	185.5	184.8	183.9	183.2	182.3	181.5	180.5	179.7	178.8	179.1
140°	180.2	179.6	178.8	178.1	177.3	176.7	175.8	175.0	174.1	173.4	173.8
142.5°	173.4	172.9	172.4	171.7	171.2	170.6	169.9	169.2	168.5	167.8	168.4
145°	168.9	168.5	168.1	167.6	167.1	166.5	166.0	165.3	164.7	164.3	164.8
147.5°	165.1	164.7	164.4	164.0	163.7	163.1	162.7	162.1	161.7	161.2	161.7
150°	161.7	161.3	161.2	160.7	160.3	159.8	159.4	158.9	158.5	158.0	158.6
152.5°	158.1	157.8	157.6	157.1	156.8	156.3	156.0	155.4	155.0	154.6	155.0
155°	156.0	155.7	155.3	155.0	154.7	154.3	153.8	153.5	153.0	152.6	153.1
157.5°	154.7	154.4	154.2	153.9	153.6	153.2	152.9	152.6	152.3	152.0	152.2
160°	154.2	153.9	153.6	153.4	153.0	152.7	152.4	152.1	151.8	151.6	151.8
162.5°	153.7	153.4	153.1	152.9	152.6	152.2	151.9	151.7	151.5	151.1	151.4
165°	153.8	153.6	153.4	153.2	153.0	152.8	152.6	152.4	152.2	152.0	152.2
167.5°	155.1	154.8	154.8	154.5	154.2	154.1	153.8	153.5	153.4	153.0	153.3
170°	155.7	155.5	155.4	155.3	155.1	155.0	154.9	154.8	154.6	154.5	154.7
172.5°	156.6	156.4	156.3	156.3	156.1	156.0	155.9	155.8	155.7	155.6	155.8
175°	156.6	156.4	156.4	156.3	156.2	156.2	156.1	156.0	156.0	155.9	156.0
177.5°	157.7	157.6	157.6	157.6	157.6	157.6	157.5	157.4	157.4	157.4	157.5
180°	158.5	158.5	158.5	158.5	158.5	158.5	158.5	158.5	158.5	158.5	158.5



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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°	55.9	57.6	60.3	61.1	63.1	63.7	53.7	53.1	51.6	51.5	49.6
92.5°	27.2	29.1	31.1	33.1	35.1	37.0	37.8	39.4	37.4	35.3	33.5
95°	32.2	35.4	38.6	41.7	44.9	48.1	51.3	54.5	51.5	48.5	45.5
97.5°	36.2	39.9	43.7	47.4	51.2	55.0	58.8	62.5	59.3	56.0	52.8
100°	47.5	54.5	61.5	68.5	75.5	82.5	89.6	96.6	90.5	84.2	78.1
102.5°	98.8	113.6	128.6	143.4	158.3	173.2	188.1	203.0	188.9	174.7	160.6
105°	191.3	215.4	239.6	263.6	287.7	311.9	336.2	360.2	337.6	314.9	292.4
107.5°	303.3	327.7	352.2	376.5	401.0	425.5	450.1	474.6	452.5	430.4	408.5
110°	372.7	390.6	408.4	426.3	444.2	462.0	480.2	498.0	484.7	471.4	458.1



TEST NUMBER: P1444498
 CATALOG NUMBER: EHBR1-12-UNV-TA-L835-UPL12

CANDELA DISTRIBUTION (continued):

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
112.5°	388.0	400.9	413.7	426.3	439.0	451.8	465.0	477.8	471.2	464.5	457.9
115°	367.1	375.7	384.3	392.9	401.5	410.1	419.1	427.8	425.7	423.5	421.4
117.5°	330.5	335.4	340.2	345.1	349.7	354.6	359.9	364.9	365.3	365.6	366.0
120°	291.7	293.7	295.7	297.9	299.8	301.8	304.5	306.6	308.4	310.2	312.0
122.5°	258.6	259.4	260.1	260.9	261.7	262.4	263.9	264.9	266.1	267.3	268.6
125°	232.0	232.3	232.8	233.2	233.5	233.9	235.1	235.6	235.8	235.7	235.9
127.5°	214.1	214.2	214.2	214.4	214.4	214.4	215.4	215.6	215.0	214.2	213.4
130°	201.1	201.3	201.5	201.7	201.9	202.1	203.2	203.6	202.4	200.9	199.6
132.5°	192.6	192.9	193.1	193.3	193.5	193.8	195.1	195.6	194.1	192.6	191.0
135°	185.4	185.7	186.0	186.4	186.7	187.0	188.5	189.1	187.6	186.1	184.6
137.5°	179.3	179.7	180.1	180.3	180.6	181.0	182.6	183.3	182.1	180.8	179.7
140°	174.1	174.5	174.9	175.4	175.8	176.3	178.0	178.7	177.8	176.9	175.9
142.5°	168.9	169.5	170.1	170.8	171.3	171.9	173.9	174.8	174.1	173.5	172.8
145°	165.4	166.1	166.8	167.6	168.2	168.9	171.1	172.2	171.8	171.3	170.8
147.5°	162.3	162.9	163.5	164.2	164.8	165.6	167.8	168.9	168.6	168.3	168.1
150°	159.1	159.8	160.4	161.1	161.8	162.5	165.1	166.3	166.0	165.8	165.6
152.5°	155.6	156.2	156.8	157.4	158.0	158.7	161.7	162.9	162.6	162.3	162.2
155°	153.4	153.9	154.4	154.8	155.2	155.8	158.9	160.1	160.0	159.9	159.7
157.5°	152.6	152.9	153.1	153.6	153.9	154.3	157.6	158.6	158.5	158.3	158.2
160°	151.9	152.2	152.4	152.7	152.9	153.3	156.6	157.7	157.6	157.4	157.3
162.5°	151.6	152.1	152.3	152.6	153.0	153.4	156.8	157.9	157.7	157.5	157.4
165°	152.4	152.5	152.7	153.0	153.2	153.4	156.5	157.5	157.4	157.3	157.2
167.5°	153.4	153.7	153.9	154.0	154.3	154.6	157.4	158.3	158.2	158.1	158.0
170°	154.8	154.9	155.1	155.3	155.5	155.8	158.2	158.9	158.8	158.6	158.5
172.5°	156.0	156.3	156.5	156.7	156.9	157.2	159.2	160.0	159.8	159.7	159.5
175°	156.2	156.4	156.6	156.8	156.9	157.2	158.8	159.3	159.2	159.2	159.1
177.5°	157.7	157.7	157.9	158.0	158.1	158.2	159.3	159.6	159.6	159.6	159.5
180°	158.5	158.5	158.5	158.5	158.5	158.5	158.5	158.5	158.5	158.5	158.5



TEST NUMBER: P1444498
 CATALOG NUMBER: EHBR1-12-UNV-TA-L835-UPL12

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°	49.0	47.1	47.2	46.2	46.8	45.9	46.6	45.5	46.4	46.1	47.5
92.5°	31.2	29.3	27.1	25.2	23.1	21.2	20.1	19.3	18.2	17.5	16.4
95°	42.6	39.6	36.7	33.6	30.7	27.7	26.7	25.6	24.4	23.4	22.3
97.5°	49.6	46.5	43.3	40.0	36.8	33.6	33.0	32.2	31.5	30.7	30.1
100°	71.8	65.7	59.5	53.3	47.1	41.0	40.4	39.9	39.3	38.7	38.1
102.5°	146.5	132.3	118.2	104.0	90.0	75.7	73.3	70.8	68.4	65.9	63.4
105°	269.7	247.2	224.6	202.0	179.4	156.8	150.1	143.2	136.5	129.7	123.0
107.5°	386.4	364.3	342.3	320.3	298.3	276.1	265.5	254.9	244.2	233.5	222.9
110°	444.9	431.7	418.5	405.1	391.9	378.7	368.6	358.4	348.2	338.0	327.9



TEST NUMBER: P1444498
 CATALOG NUMBER: EHBR1-12-UNV-TA-L835-UPL12

CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
112.5°	451.2	444.6	438.0	431.3	424.7	418.1	413.1	408.1	403.3	398.2	393.2
115°	419.3	417.1	415.0	412.9	410.8	408.7	408.4	408.0	407.6	407.3	407.0
117.5°	366.3	366.6	367.0	367.5	367.9	368.3	370.9	373.6	376.2	378.9	381.6
120°	313.8	315.4	317.3	319.1	320.8	322.7	326.2	329.8	333.4	336.9	340.7
122.5°	269.8	271.0	272.3	273.6	274.8	276.1	279.5	283.1	286.6	290.1	293.9
125°	235.9	235.9	236.0	236.0	236.0	236.1	239.0	241.8	244.7	247.7	250.7
127.5°	212.6	211.9	211.0	210.3	209.4	208.8	210.4	212.2	213.8	215.5	217.4
130°	198.2	196.9	195.4	194.1	192.7	191.4	192.1	192.7	193.3	194.1	194.7
132.5°	189.4	187.8	186.2	184.5	183.0	181.4	181.3	181.3	181.3	181.3	181.4
135°	183.1	181.6	180.1	178.5	177.0	175.5	175.0	174.7	174.3	173.9	173.7
137.5°	178.5	177.3	176.1	174.9	173.7	172.5	171.9	171.3	170.8	170.4	169.8
140°	174.9	174.0	173.0	172.0	171.0	170.2	169.6	169.2	168.6	168.3	167.8
142.5°	172.0	171.2	170.6	169.8	169.1	168.3	167.9	167.5	167.1	166.7	166.3
145°	170.5	169.9	169.4	169.0	168.4	168.0	167.6	167.4	167.0	166.7	166.5
147.5°	167.8	167.5	167.2	167.0	166.6	166.3	166.0	165.8	165.5	165.4	165.1
150°	165.2	164.9	164.6	164.4	164.2	163.9	163.7	163.6	163.4	163.4	163.2
152.5°	161.9	161.6	161.3	161.2	160.9	160.6	160.5	160.5	160.3	160.2	160.1
155°	159.5	159.4	159.2	159.0	158.8	158.6	158.5	158.3	158.1	158.0	157.8
157.5°	158.1	158.0	157.8	157.7	157.5	157.3	157.1	157.0	156.8	156.7	156.5
160°	157.1	157.0	156.8	156.7	156.5	156.4	156.1	155.8	155.7	155.4	155.1
162.5°	157.1	156.8	156.6	156.5	156.2	156.0	155.8	155.6	155.4	155.3	155.1
165°	157.0	156.9	156.7	156.5	156.4	156.3	156.0	155.7	155.6	155.3	155.0
167.5°	157.9	157.8	157.6	157.5	157.3	157.2	157.0	156.8	156.5	156.3	156.1
170°	158.3	158.0	158.0	157.8	157.6	157.3	157.1	156.9	156.7	156.5	156.2
172.5°	159.4	159.2	159.0	158.9	158.7	158.5	158.3	158.1	158.0	157.9	157.7
175°	159.0	159.0	159.0	158.8	158.8	158.7	158.6	158.6	158.5	158.5	158.4
177.5°	159.5	159.5	159.5	159.4	159.4	159.4	159.2	159.1	159.1	158.9	158.8
180°	158.5	158.5	158.5	158.5	158.5	158.5	158.5	158.5	158.5	158.5	158.5



TEST NUMBER: P1444498
 CATALOG NUMBER: EHBR1-12-UNV-TA-L835-UPL12

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°	46.7	47.6	46.1	46.1	45.4	46.2	44.5	44.4	41.9	41.4	39.1
92.5°	15.5	14.4	13.6	12.6	13.8	14.4	15.6	16.4	17.4	18.2	19.3
95°	21.2	20.1	19.0	17.9	18.8	19.7	20.6	21.4	22.2	23.1	23.9
97.5°	29.3	28.6	27.8	27.1	27.6	28.1	28.7	29.2	29.7	30.2	30.8
100°	37.5	36.9	36.4	35.8	35.8	35.8	35.8	35.8	35.8	35.8	35.8
102.5°	61.0	58.6	56.0	53.6	55.3	56.9	58.6	60.2	62.0	63.6	65.4
105°	116.3	109.6	102.8	96.1	102.6	109.1	115.7	122.2	128.7	135.3	141.9
107.5°	212.2	201.6	191.0	180.3	192.2	204.1	215.9	227.8	239.7	251.5	263.4
110°	317.7	307.7	297.5	287.4	300.0	312.6	325.2	337.8	350.3	362.9	375.6



TEST NUMBER: P1444498
 CATALOG NUMBER: EHBR1-12-UNV-TA-L835-UPL12

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	92.5°	95°	97.5°	100°	102.5°	105°	107.5°
112.5°	388.2	383.4	378.4	373.5	381.6	389.7	397.8	406.1	414.1	422.4	430.5
115°	406.8	406.5	406.2	405.9	409.8	413.5	417.4	421.2	425.2	429.0	432.9
117.5°	384.4	387.1	389.9	392.6	393.9	395.0	396.3	397.5	398.8	400.1	401.4
120°	344.3	347.9	351.6	355.3	354.8	354.3	353.7	353.2	352.9	352.5	352.1
122.5°	297.5	301.1	304.8	308.4	307.4	306.3	305.1	304.1	303.2	302.1	301.2
125°	253.8	256.9	259.9	263.0	261.9	260.8	259.7	258.7	257.7	256.8	255.8
127.5°	219.2	221.2	223.0	224.9	224.4	223.9	223.4	223.0	222.6	222.2	221.8
130°	195.6	196.4	197.2	198.1	198.3	198.4	198.7	198.9	199.3	199.5	199.8
132.5°	181.6	181.7	181.9	182.1	182.7	183.3	183.9	184.6	185.4	186.1	186.9
135°	173.5	173.2	173.1	172.9	173.8	174.6	175.5	176.5	177.4	178.5	179.7
137.5°	169.4	169.0	168.6	168.3	169.2	170.1	171.0	171.9	173.0	174.0	175.2
140°	167.6	167.2	167.1	166.7	167.6	168.4	169.3	170.3	171.3	172.4	173.5
142.5°	165.9	165.6	165.3	165.1	165.9	166.7	167.6	168.4	169.4	170.3	171.3
145°	166.2	165.9	165.8	165.6	166.1	166.7	167.4	168.0	168.6	169.3	170.1
147.5°	165.0	164.8	164.7	164.6	165.0	165.5	165.9	166.4	166.9	167.5	168.0
150°	163.3	163.1	163.0	163.1	163.3	163.6	163.9	164.2	164.5	164.8	165.3
152.5°	160.1	159.9	160.0	160.0	160.2	160.5	160.8	161.0	161.3	161.6	162.0
155°	157.8	157.6	157.5	157.4	157.5	157.6	157.8	157.8	158.0	158.0	158.2
157.5°	156.4	156.2	156.2	156.0	156.0	155.9	156.0	156.0	156.0	156.0	156.1
160°	155.0	154.8	154.6	154.4	154.4	154.5	154.6	154.6	154.7	154.8	154.8
162.5°	155.0	154.8	154.8	154.6	154.6	154.4	154.3	154.2	154.1	154.0	154.0
165°	154.8	154.7	154.5	154.2	154.2	154.2	154.1	154.1	154.1	154.1	154.0
167.5°	155.9	155.6	155.5	155.2	155.1	154.8	154.8	154.6	154.5	154.3	154.3
170°	156.0	155.9	155.7	155.5	155.4	155.3	155.3	155.1	155.1	155.1	155.1
172.5°	157.5	157.4	157.2	157.0	156.9	156.9	156.8	156.8	156.7	156.7	156.7
175°	158.3	158.3	158.2	158.1	158.0	158.0	158.0	157.9	157.8	157.6	157.6
177.5°	158.7	158.6	158.5	158.4	158.4	158.4	158.4	158.4	158.4	158.3	158.3
180°	158.5	158.5	158.5	158.5	158.5	158.5	158.5	158.5	158.5	158.5	158.5



TEST NUMBER: P1444498
 CATALOG NUMBER: EHBR1-12-UNV-TA-L835-UPL12

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°	39.1	37.2	37.7	36.7	37.4	36.6	37.6	37.3	38.7	38.3	39.8
92.5°	20.1	21.0	22.8	24.6	26.3	28.0	29.8	31.6	33.3	35.1	36.7
95°	24.8	25.7	28.0	30.3	32.7	35.0	37.3	39.7	42.0	44.3	46.6
97.5°	31.3	31.8	34.1	36.5	38.8	41.1	43.3	45.8	48.1	50.4	52.7
100°	35.8	35.9	42.5	49.1	55.7	62.2	68.7	75.3	82.0	88.6	95.2
102.5°	67.0	68.6	85.3	101.9	118.6	135.3	151.9	168.6	185.3	202.0	218.6
105°	148.4	154.8	180.3	205.8	231.2	256.6	281.9	307.4	332.8	358.3	383.7
107.5°	275.4	287.2	310.3	333.2	356.1	379.1	402.2	425.1	448.2	471.0	494.2
110°	388.2	400.8	416.3	431.6	447.0	462.4	477.8	493.2	508.7	524.1	539.6



TEST NUMBER: P1444498
 CATALOG NUMBER: EHBR1-12-UNV-TA-L835-UPL12

CANDELA DISTRIBUTION (continued):

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°
112.5°	438.6	446.8	455.7	464.7	473.7	482.7	491.7	500.7	509.7	518.7	527.9
115°	436.7	440.7	444.1	447.7	451.2	454.7	458.2	461.8	465.4	468.9	472.5
117.5°	402.7	404.0	404.5	405.2	405.7	406.4	406.9	407.6	408.2	409.0	409.5
120°	351.6	351.2	350.7	350.1	349.6	349.1	348.6	348.1	347.6	347.1	346.7
122.5°	300.2	299.3	298.7	298.3	297.8	297.3	296.9	296.4	296.0	295.5	295.2
125°	254.9	254.0	254.5	255.1	255.7	256.3	256.9	257.5	258.1	258.7	259.4
127.5°	221.6	221.4	222.6	224.1	225.5	226.9	228.3	229.8	231.3	232.7	234.1
130°	200.2	200.6	202.4	204.2	205.9	207.8	209.5	211.4	213.1	215.0	216.8
132.5°	187.7	188.7	190.2	192.0	193.7	195.5	197.3	199.1	200.7	202.6	204.2
135°	180.7	181.9	183.5	185.0	186.7	188.3	189.9	191.5	193.1	194.7	196.3
137.5°	176.3	177.4	178.8	180.0	181.2	182.7	183.8	185.2	186.5	187.7	189.0
140°	174.5	175.8	176.4	177.2	177.9	178.8	179.5	180.3	180.9	181.8	182.5
142.5°	172.3	173.4	173.8	174.3	174.8	175.4	175.9	176.4	176.9	177.3	177.8
145°	170.8	171.6	171.7	171.8	171.9	172.0	172.1	172.2	172.2	172.3	172.4
147.5°	168.6	169.2	169.1	169.2	169.1	169.0	169.0	169.0	168.8	168.8	168.8
150°	165.6	166.1	165.9	165.8	165.6	165.4	165.2	165.0	164.8	164.7	164.5
152.5°	162.3	162.7	162.4	162.2	162.0	161.8	161.5	161.3	161.2	160.9	160.8
155°	158.3	158.5	158.3	158.3	158.1	158.0	157.9	157.9	157.8	157.7	157.6
157.5°	156.0	156.1	156.0	156.0	155.8	155.8	155.8	155.7	155.7	155.8	155.8
160°	154.8	154.9	154.8	154.8	154.7	154.6	154.6	154.6	154.6	154.7	154.7
162.5°	153.9	153.8	153.7	153.7	153.6	153.5	153.6	153.6	153.5	153.6	153.6
165°	154.1	154.2	154.0	153.9	153.8	153.6	153.6	153.5	153.5	153.4	153.4
167.5°	154.1	154.0	154.0	154.1	154.1	154.1	154.2	154.3	154.4	154.5	154.6
170°	155.0	155.1	154.9	154.9	154.9	154.8	154.8	154.8	154.8	154.8	154.8
172.5°	156.7	156.7	156.6	156.4	156.3	156.1	156.0	155.9	155.8	155.6	155.5
175°	157.5	157.4	157.3	157.3	157.2	157.0	157.0	156.9	156.8	156.8	156.7
177.5°	158.3	158.2	158.1	158.1	158.1	158.1	158.1	158.0	158.0	158.0	158.0
180°	158.5	158.5	158.5	158.5	158.5	158.5	158.5	158.5	158.5	158.5	158.5



TEST NUMBER: P1444498
 CATALOG NUMBER: EHBR1-12-UNV-TA-L835-UPL12

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°	37.0	36.0	33.3	32.3	29.7	28.0	25.1	23.7	20.9	20.4	18.7
92.5°	34.8	32.9	30.9	28.9	27.1	25.1	23.1	21.1	19.2	18.4	17.9
95°	43.8	41.0	38.2	35.4	32.5	29.7	26.9	24.0	21.2	20.7	20.1
97.5°	49.5	46.1	42.8	39.5	36.1	32.8	29.6	26.2	22.9	22.5	22.1
100°	87.6	80.0	72.3	64.7	56.9	49.3	41.7	34.0	26.4	26.0	25.5
102.5°	200.0	181.5	163.0	144.4	125.9	107.2	88.7	70.1	51.6	48.9	46.3
105°	355.7	327.4	299.4	271.4	243.2	215.1	187.0	158.8	130.8	121.8	112.8
107.5°	467.7	441.4	415.0	388.6	362.1	335.7	309.3	282.8	256.4	240.6	224.7
110°	518.6	497.6	476.8	455.8	434.8	413.8	392.8	371.8	350.9	337.1	323.6



TEST NUMBER: P1444498
 CATALOG NUMBER: EHBR1-12-UNV-TA-L835-UPL12

CANDELA DISTRIBUTION (continued):

	137.5°	140°	142.5°	145°	147.5°	150°	152.5°	155°	157.5°	160°	162.5°
112.5°	512.4	497.1	481.8	466.4	451.2	435.7	420.3	405.0	389.6	381.3	373.0
115°	463.3	454.1	444.9	435.6	426.3	417.0	407.8	398.5	389.2	384.8	380.5
117.5°	404.8	400.1	395.4	390.7	385.9	381.2	376.5	371.7	366.9	365.4	363.9
120°	345.4	343.9	342.4	341.0	339.6	338.1	336.6	335.1	333.6	333.8	334.0
122.5°	295.7	296.3	296.9	297.4	298.0	298.4	299.0	299.5	300.0	301.2	302.3
125°	260.7	262.1	263.5	264.9	266.2	267.5	269.0	270.2	271.6	272.8	273.9
127.5°	235.7	237.2	238.8	240.3	241.8	243.4	244.9	246.3	247.8	248.9	250.1
130°	218.2	219.5	220.8	222.1	223.5	224.9	226.1	227.5	228.7	229.6	230.4
132.5°	205.4	206.6	207.9	209.0	210.2	211.4	212.6	213.8	215.1	215.6	216.3
135°	197.2	198.0	199.0	199.8	200.8	201.6	202.6	203.5	204.4	204.9	205.4
137.5°	189.9	190.4	191.3	192.0	192.8	193.4	194.3	195.0	195.9	196.0	196.3
140°	183.3	184.0	184.8	185.6	186.4	187.1	188.1	188.9	189.8	190.0	190.2
142.5°	178.4	178.9	179.6	180.2	180.8	181.4	182.1	182.8	183.5	183.7	183.9
145°	173.1	173.8	174.5	175.2	176.0	176.7	177.6	178.4	179.3	179.4	179.6
147.5°	169.4	170.0	170.7	171.2	172.0	172.6	173.4	174.0	174.9	175.0	175.1
150°	165.2	165.8	166.5	167.2	167.8	168.6	169.4	170.2	171.0	171.2	171.4
152.5°	161.4	162.1	162.8	163.6	164.4	165.2	166.1	166.9	167.7	167.9	168.2
155°	158.2	158.9	159.7	160.5	161.2	162.0	162.9	163.7	164.5	164.8	165.1
157.5°	156.4	157.0	157.8	158.4	159.1	159.8	160.7	161.3	162.0	162.3	162.5
160°	155.2	155.8	156.4	157.1	157.7	158.3	158.9	159.6	160.2	160.5	160.7
162.5°	154.2	154.8	155.4	156.0	156.6	157.3	157.9	158.5	159.1	159.3	159.6
165°	153.9	154.3	154.8	155.1	155.5	156.0	156.5	156.9	157.5	157.7	158.0
167.5°	154.9	155.1	155.6	155.9	156.3	156.6	157.1	157.4	157.8	158.0	158.2
170°	155.0	155.4	155.6	156.0	156.4	156.7	157.0	157.4	157.8	158.0	158.1
172.5°	155.7	155.9	156.1	156.4	156.5	156.8	157.0	157.3	157.5	157.8	157.9
175°	156.8	156.8	157.0	157.1	157.1	157.3	157.4	157.5	157.7	157.9	158.0
177.5°	158.0	158.1	158.1	158.2	158.4	158.5	158.6	158.7	158.8	159.0	159.2
180°	158.5	158.5	158.5	158.5	158.5	158.5	158.5	158.5	158.5	158.5	158.5



TEST NUMBER: P1444498
 CATALOG NUMBER: EHBR1-12-UNV-TA-L835-UPL12

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°	18.1	16.7	16.2	14.7	14.2	13.1	12.7	12.9	13.3	13.7	14.1
92.5°	17.3	16.6	16.0	15.3	14.6	14.1	13.4	14.1	14.6	15.3	16.0
95°	19.5	18.9	18.4	17.8	17.3	16.7	16.1	16.7	17.3	17.9	18.5
97.5°	21.8	21.4	21.0	20.7	20.4	20.0	19.6	20.0	20.4	20.7	21.0
100°	25.1	24.6	24.2	23.8	23.4	22.9	22.5	23.0	23.5	23.9	24.3
102.5°	43.5	40.8	38.2	35.5	32.8	30.2	27.4	30.2	32.8	35.6	38.3
105°	103.7	94.6	85.6	76.6	67.5	58.5	49.5	58.6	67.6	76.7	85.7
107.5°	208.7	192.9	177.0	161.1	145.1	129.2	113.3	129.3	145.2	161.2	177.1
110°	309.9	296.1	282.4	268.7	255.0	241.2	227.5	241.2	255.0	268.7	282.5



TEST NUMBER: P1444498
 CATALOG NUMBER: EHBR1-12-UNV-TA-L835-UPL12

CANDELA DISTRIBUTION (continued):

	165°	167.5°	170°	172.5°	175°	177.5°	180°	182.5°	185°	187.5°	190°
112.5°	364.6	356.2	347.9	339.6	331.1	322.9	314.4	322.9	331.2	339.8	348.1
115°	376.0	371.7	367.3	362.9	358.4	354.0	349.5	354.1	358.6	363.1	367.6
117.5°	362.3	360.8	359.2	357.7	356.1	354.6	352.9	354.7	356.3	358.0	359.6
120°	334.1	334.3	334.5	334.6	334.8	334.9	335.0	335.0	335.0	335.0	335.0
122.5°	303.5	304.7	305.6	306.8	308.0	309.0	310.0	309.1	308.2	307.4	306.3
125°	275.1	276.4	277.5	278.7	279.7	280.9	281.9	281.1	280.2	279.3	278.2
127.5°	251.1	252.2	253.2	254.3	255.3	256.3	257.1	256.5	255.7	254.8	254.0
130°	231.3	232.1	232.8	233.7	234.5	235.1	235.7	235.3	234.8	234.4	233.7
132.5°	216.9	217.6	218.2	218.7	219.2	219.8	220.2	220.0	219.7	219.4	219.0
135°	205.8	206.1	206.6	207.0	207.3	207.6	207.8	207.9	207.8	207.8	207.6
137.5°	196.5	196.8	196.9	197.1	197.2	197.3	197.3	197.6	197.7	198.0	198.0
140°	190.4	190.7	190.9	191.0	191.3	191.3	191.3	191.6	191.8	191.9	192.0
142.5°	184.2	184.4	184.7	184.8	185.0	185.0	185.1	185.3	185.5	185.6	185.7
145°	179.7	179.9	180.0	180.2	180.1	180.1	180.0	180.3	180.5	180.8	181.0
147.5°	175.2	175.4	175.4	175.5	175.5	175.5	175.4	175.7	176.0	176.2	176.4
150°	171.8	172.0	172.2	172.4	172.6	172.7	172.7	172.9	173.1	173.1	173.2
152.5°	168.4	168.6	168.8	168.9	169.2	169.2	169.2	169.5	169.7	169.8	169.9
155°	165.3	165.6	165.8	166.0	166.2	166.4	166.6	166.7	166.8	166.9	167.0
157.5°	162.7	163.0	163.2	163.4	163.6	163.8	164.0	164.2	164.3	164.4	164.4
160°	160.9	161.2	161.2	161.5	161.7	161.9	162.0	162.2	162.4	162.5	162.6
162.5°	159.8	160.0	160.1	160.4	160.5	160.7	160.9	161.1	161.2	161.3	161.4
165°	158.1	158.4	158.7	159.0	159.2	159.5	159.7	159.8	159.8	160.0	160.0
167.5°	158.4	158.7	158.9	159.2	159.3	159.6	159.8	159.9	159.9	160.0	160.1
170°	158.3	158.5	158.7	158.9	159.2	159.3	159.5	159.5	159.6	159.7	159.7
172.5°	158.1	158.4	158.7	158.9	159.2	159.4	159.7	159.7	159.6	159.5	159.4
175°	158.2	158.4	158.6	158.8	159.0	159.2	159.5	159.3	159.4	159.2	159.2
177.5°	159.6	159.9	160.1	160.3	160.6	160.8	161.1	160.9	160.7	160.5	160.3
180°	158.5	158.5	158.5	158.5	158.5	158.5	158.5	158.5	158.5	158.5	158.5



TEST NUMBER: P1444498
 CATALOG NUMBER: EHBR1-12-UNV-TA-L835-UPL12

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°	14.4	14.8	15.2	15.7	16.3	17.5	18.7	19.9	21.3	22.5	23.9
92.5°	16.6	17.3	17.9	18.5	19.2	21.1	23.1	25.1	27.1	29.0	30.9
95°	19.0	19.6	20.2	20.8	21.4	24.2	27.1	29.9	32.7	35.6	38.4
97.5°	21.5	21.9	22.2	22.6	23.0	26.3	29.7	33.0	36.3	39.7	43.0
100°	24.7	25.2	25.6	26.2	26.6	34.2	41.9	49.5	57.2	64.9	72.5
102.5°	40.9	43.6	46.3	49.1	51.8	70.4	89.0	107.5	126.1	144.7	163.3
105°	94.7	103.7	113.0	122.0	131.0	159.1	187.3	215.4	243.5	271.7	299.8
107.5°	193.0	208.9	225.0	240.9	256.8	283.2	309.6	336.1	362.5	389.0	415.4
110°	296.3	310.0	323.8	337.5	351.3	372.2	393.3	414.3	435.3	456.4	477.3



TEST NUMBER: P1444498
 CATALOG NUMBER: EHBR1-12-UNV-TA-L835-UPL12

CANDELA DISTRIBUTION (continued):

	192.5°	195°	197.5°	200°	202.5°	205°	207.5°	210°	212.5°	215°	217.5°
112.5°	356.5	364.9	373.3	381.6	390.1	405.5	420.9	436.3	451.8	467.1	482.5
115°	372.0	376.4	381.0	385.3	389.8	399.2	408.5	417.8	427.1	436.3	445.7
117.5°	361.3	362.9	364.5	366.0	367.6	372.4	377.3	382.0	386.9	391.7	396.5
120°	335.0	334.9	334.8	334.6	334.5	336.0	337.6	339.2	340.6	342.2	343.6
122.5°	305.3	304.3	303.2	302.1	301.1	300.6	300.1	299.6	299.2	298.6	298.2
125°	277.2	276.1	275.0	274.0	272.9	271.6	270.3	268.9	267.6	266.4	265.0
127.5°	253.2	252.2	251.2	250.3	249.3	247.7	246.4	244.8	243.4	241.9	240.4
130°	233.2	232.5	231.8	231.0	230.4	229.0	227.8	226.5	225.1	224.0	222.6
132.5°	218.7	218.3	217.8	217.2	216.7	215.5	214.5	213.2	212.1	210.9	209.8
135°	207.4	207.1	206.9	206.6	206.2	205.4	204.5	203.6	202.8	202.0	201.1
137.5°	198.1	198.0	198.0	197.8	197.8	197.0	196.3	195.6	195.0	194.2	193.5
140°	192.0	192.0	192.0	191.9	191.8	191.0	190.3	189.5	188.8	188.0	187.2
142.5°	185.7	185.8	185.7	185.7	185.6	184.9	184.4	183.8	183.3	182.7	182.1
145°	181.0	181.1	181.3	181.2	181.3	180.6	180.0	179.2	178.6	177.8	177.2
147.5°	176.7	176.7	176.8	177.0	177.1	176.4	175.9	175.2	174.7	174.0	173.7
150°	173.3	173.3	173.3	173.3	173.3	172.7	172.1	171.4	170.9	170.3	169.8
152.5°	170.0	170.1	170.1	170.1	170.2	169.6	168.9	168.3	167.6	167.0	166.4
155°	167.1	167.1	167.1	167.1	167.1	166.5	165.9	165.3	164.7	164.2	163.6
157.5°	164.5	164.6	164.7	164.7	164.8	164.4	163.9	163.3	162.8	162.2	161.7
160°	162.7	162.8	162.9	163.0	163.0	162.6	162.2	161.7	161.3	160.9	160.4
162.5°	161.5	161.7	161.7	161.8	161.9	161.5	161.1	160.7	160.2	159.8	159.3
165°	160.0	160.0	160.1	160.0	160.0	159.7	159.5	159.2	158.9	158.6	158.3
167.5°	160.1	160.0	160.1	160.1	160.1	159.9	159.8	159.4	159.2	159.0	158.8
170°	159.8	159.7	159.7	159.8	159.7	159.5	159.3	159.1	159.0	158.6	158.4
172.5°	159.4	159.3	159.2	159.2	159.0	158.9	158.7	158.6	158.5	158.4	158.2
175°	159.0	159.0	158.8	158.8	158.6	158.6	158.6	158.5	158.4	158.4	158.3
177.5°	160.1	160.0	159.7	159.5	159.4	159.3	159.2	159.2	159.2	159.1	159.0
180°	158.5	158.5	158.5	158.5	158.5	158.5	158.5	158.5	158.5	158.5	158.5



TEST NUMBER: P1444498
 CATALOG NUMBER: EHBR1-12-UNV-TA-L835-UPL12

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°	25.1	29.5	30.6	29.8	28.0	27.1	25.3	24.6	23.0	22.2	20.7
92.5°	33.0	34.9	36.8	35.1	33.4	31.6	29.9	28.1	26.4	24.6	22.9
95°	41.2	43.9	46.7	44.4	42.0	39.7	37.3	35.1	32.8	30.4	28.1
97.5°	46.3	49.5	52.8	50.5	48.2	45.8	43.4	41.2	38.9	36.6	34.2
100°	80.2	87.8	95.3	88.7	82.1	75.5	68.9	62.3	55.8	49.2	42.6
102.5°	181.7	200.2	218.7	202.1	185.5	168.7	152.0	135.5	118.8	102.0	85.4
105°	327.8	355.9	383.9	358.4	333.0	307.5	282.1	256.7	231.3	205.8	180.3
107.5°	441.9	468.0	494.3	471.2	448.4	425.3	402.3	379.3	356.3	333.3	310.4
110°	498.3	518.9	539.8	524.3	509.0	493.4	478.0	462.5	447.1	431.8	416.4



TEST NUMBER: P1444498
 CATALOG NUMBER: EHBR1-12-UNV-TA-L835-UPL12

CANDELA DISTRIBUTION (continued):

	220°	222.5°	225°	227.5°	230°	232.5°	235°	237.5°	240°	242.5°	245°
112.5°	497.9	512.8	528.1	518.9	509.9	501.0	491.9	482.9	473.9	464.9	455.9
115°	454.9	463.7	472.8	469.2	465.6	462.0	458.4	454.9	451.4	447.9	444.4
117.5°	401.1	405.3	410.0	409.3	408.6	407.9	407.2	406.7	406.0	405.4	404.8
120°	345.2	346.0	347.2	347.5	348.1	348.5	349.1	349.5	350.0	350.4	351.0
122.5°	297.7	296.4	295.6	296.0	296.5	296.8	297.4	297.7	298.3	298.6	299.2
125°	263.6	261.4	259.9	259.3	258.7	258.0	257.4	256.8	256.2	255.6	255.0
127.5°	238.9	236.6	234.7	233.4	231.9	230.4	229.0	227.6	226.2	224.7	223.3
130°	221.4	219.0	217.6	215.7	214.0	212.1	210.3	208.6	206.7	205.0	203.1
132.5°	208.7	206.4	205.1	203.3	201.7	199.9	198.2	196.3	194.7	192.9	191.2
135°	200.2	198.3	197.1	195.5	194.1	192.5	190.8	189.3	187.7	186.1	184.6
137.5°	192.8	190.9	189.9	188.7	187.5	186.2	185.0	183.7	182.5	181.0	180.0
140°	186.5	184.4	183.5	182.9	182.1	181.4	180.6	180.0	179.2	178.5	177.7
142.5°	181.5	179.7	178.8	178.4	178.0	177.4	177.1	176.7	176.2	175.6	175.2
145°	176.5	174.3	173.5	173.3	173.4	173.3	173.3	173.2	173.2	173.1	173.1
147.5°	173.0	170.8	169.9	170.0	170.1	170.2	170.3	170.3	170.4	170.5	170.6
150°	169.0	166.6	165.5	165.7	165.9	166.1	166.4	166.6	166.8	167.0	167.2
152.5°	165.7	162.8	161.5	161.7	162.0	162.2	162.5	162.7	163.0	163.3	163.6
155°	162.9	159.7	158.4	158.5	158.5	158.7	158.7	158.9	159.0	159.2	159.4
157.5°	161.1	157.9	156.7	156.6	156.6	156.6	156.7	156.7	156.8	156.9	157.0
160°	160.0	156.7	155.5	155.4	155.4	155.4	155.4	155.4	155.5	155.6	155.6
162.5°	158.8	155.6	154.5	154.5	154.4	154.4	154.5	154.3	154.4	154.5	154.5
165°	158.0	155.2	154.3	154.2	154.3	154.3	154.4	154.5	154.6	154.7	154.8
167.5°	158.5	156.1	155.3	155.2	155.0	154.9	154.9	154.8	154.8	154.8	154.8
170°	158.1	156.2	155.5	155.5	155.6	155.5	155.5	155.6	155.6	155.6	155.7
172.5°	158.0	156.6	156.2	156.2	156.4	156.5	156.7	156.7	156.9	157.0	157.2
175°	158.2	157.5	157.3	157.3	157.3	157.4	157.5	157.5	157.6	157.7	157.8
177.5°	159.0	158.7	158.5	158.5	158.5	158.5	158.5	158.5	158.5	158.6	158.6
180°	158.5	158.5	158.5	158.5	158.5	158.5	158.5	158.5	158.5	158.5	158.5



TEST NUMBER: P1444498
 CATALOG NUMBER: EHBR1-12-UNV-TA-L835-UPL12

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°	20.0	18.9	18.7	17.6	17.7	16.5	16.8	15.8	16.3	14.9	16.9
92.5°	21.1	20.2	19.3	18.3	17.4	16.5	15.5	14.5	13.7	12.7	13.7
95°	25.8	24.9	24.0	23.2	22.3	21.5	20.7	19.8	18.9	18.0	19.1
97.5°	31.9	31.4	30.9	30.3	29.9	29.4	28.9	28.3	27.8	27.3	28.0
100°	36.0	36.0	36.0	36.0	35.9	35.9	35.9	35.9	35.9	35.9	36.5
102.5°	68.7	67.1	65.4	63.7	62.1	60.3	58.7	57.0	55.4	53.7	56.1
105°	154.9	148.4	142.0	135.4	128.8	122.3	115.8	109.2	102.7	96.2	102.9
107.5°	287.4	275.5	263.5	251.7	239.8	227.9	216.0	204.2	192.3	180.4	191.1
110°	400.9	388.3	375.7	363.1	350.4	337.9	325.3	312.7	300.1	287.5	297.6



TEST NUMBER: P1444498
 CATALOG NUMBER: EHBR1-12-UNV-TA-L835-UPL12

CANDELA DISTRIBUTION (continued):

	247.5°	250°	252.5°	255°	257.5°	260°	262.5°	265°	267.5°	270°	272.5°
112.5°	446.9	438.7	430.6	422.4	414.2	406.2	398.0	389.9	381.8	373.7	378.6
115°	440.8	436.9	433.0	429.2	425.3	421.4	417.5	413.6	409.9	406.0	406.3
117.5°	404.2	402.9	401.6	400.3	399.0	397.7	396.5	395.2	394.0	392.8	390.1
120°	351.6	351.9	352.2	352.7	353.1	353.6	353.9	354.5	355.0	355.5	351.8
122.5°	299.6	300.5	301.5	302.5	303.4	304.5	305.4	306.6	307.7	308.7	305.0
125°	254.4	255.3	256.2	257.2	258.1	259.1	260.1	261.3	262.3	263.4	260.3
127.5°	221.9	222.2	222.4	222.8	223.1	223.6	224.0	224.5	225.0	225.5	223.6
130°	201.4	200.9	200.6	200.2	199.8	199.6	199.5	199.2	199.1	198.9	198.0
132.5°	189.5	188.6	187.8	186.9	186.2	185.5	184.8	184.2	183.5	183.1	182.8
135°	183.0	181.8	180.6	179.6	178.4	177.6	176.6	175.7	174.8	173.9	174.1
137.5°	178.6	177.5	176.4	175.3	174.1	173.2	172.2	171.2	170.4	169.6	169.9
140°	177.1	175.9	174.7	173.7	172.7	171.6	170.7	169.8	168.8	168.1	168.3
142.5°	174.7	173.8	172.7	171.7	170.8	169.9	169.0	168.1	167.4	166.7	166.9
145°	173.0	172.2	171.4	170.7	170.0	169.5	168.7	168.2	167.6	167.2	167.3
147.5°	170.6	170.1	169.4	168.9	168.3	167.9	167.4	167.0	166.5	166.2	166.3
150°	167.4	167.1	166.6	166.3	165.9	165.6	165.3	165.0	164.7	164.5	164.4
152.5°	163.8	163.5	163.1	162.8	162.5	162.2	161.9	161.7	161.5	161.2	161.2
155°	159.6	159.4	159.3	159.1	159.0	158.9	158.8	158.8	158.7	158.6	158.6
157.5°	157.1	157.0	157.0	157.1	157.0	157.1	157.0	157.1	157.1	157.2	157.3
160°	155.8	155.8	155.6	155.7	155.5	155.5	155.4	155.5	155.4	155.4	155.6
162.5°	154.6	154.8	154.8	154.8	154.9	155.0	155.1	155.2	155.3	155.5	155.6
165°	154.9	154.8	154.8	154.8	154.8	154.8	154.8	154.9	154.9	155.0	155.2
167.5°	154.8	154.8	154.9	154.9	155.0	155.2	155.4	155.5	155.6	155.9	156.1
170°	155.7	155.7	155.7	155.7	155.7	155.8	155.8	155.8	155.9	156.0	156.1
172.5°	157.3	157.3	157.2	157.3	157.2	157.3	157.3	157.3	157.3	157.4	157.5
175°	157.8	158.0	158.0	158.0	158.1	158.2	158.3	158.3	158.4	158.5	158.5
177.5°	158.6	158.6	158.6	158.6	158.6	158.7	158.7	158.7	158.7	158.6	158.7
180°	158.5	158.5	158.5	158.5	158.5	158.5	158.5	158.5	158.5	158.5	158.5



TEST NUMBER: P1444498
 CATALOG NUMBER: EHBR1-12-UNV-TA-L835-UPL12

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°	16.9	18.5	18.7	20.3	20.6	22.3	22.7	24.3	24.6	26.5	26.9
92.5°	14.5	15.5	16.5	17.4	18.3	19.3	20.2	21.1	23.2	25.1	27.2
95°	20.2	21.3	22.4	23.5	24.5	25.7	26.8	27.8	30.8	33.7	36.7
97.5°	28.8	29.5	30.3	30.9	31.7	32.4	33.2	33.8	37.0	40.2	43.4
100°	37.0	37.6	38.2	38.8	39.4	39.9	40.5	41.1	47.3	53.5	59.6
102.5°	58.7	61.1	63.5	66.0	68.6	71.0	73.5	75.9	90.1	104.1	118.3
105°	109.7	116.4	123.2	129.9	136.7	143.4	150.2	156.9	179.5	202.1	224.7
107.5°	201.7	212.3	223.0	233.7	244.3	255.0	265.6	276.3	298.4	320.5	342.4
110°	307.8	317.8	328.0	338.2	348.4	358.5	368.6	378.8	392.1	405.3	418.6



TEST NUMBER: P1444498
 CATALOG NUMBER: EHBR1-12-UNV-TA-L835-UPL12

CANDELA DISTRIBUTION (continued):

	275°	277.5°	280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°
112.5°	383.6	388.4	393.4	398.4	403.4	408.3	413.3	418.3	424.9	431.5	438.2
115°	406.7	406.9	407.2	407.5	407.8	408.2	408.6	409.0	411.1	413.2	415.4
117.5°	387.3	384.6	381.8	379.2	376.5	373.9	371.2	368.6	368.2	367.8	367.4
120°	348.3	344.6	341.0	337.2	333.7	330.2	326.7	323.2	321.3	319.5	317.7
122.5°	301.5	297.8	294.3	290.6	287.0	283.5	280.1	276.6	275.4	274.1	272.9
125°	257.2	254.3	251.3	248.2	245.4	242.5	239.7	236.9	236.8	236.7	236.7
127.5°	221.8	219.9	218.2	216.3	214.6	212.9	211.3	209.6	210.4	211.2	212.0
130°	197.2	196.3	195.7	194.9	194.3	193.6	193.1	192.4	193.7	195.1	196.5
132.5°	182.7	182.6	182.5	182.4	182.4	182.5	182.5	182.6	184.2	185.7	187.3
135°	174.2	174.5	174.9	175.1	175.6	175.9	176.3	176.7	178.3	179.8	181.3
137.5°	170.4	170.7	171.1	171.6	172.1	172.6	173.3	173.8	175.0	176.2	177.4
140°	168.6	168.9	169.3	169.7	170.1	170.6	171.0	171.4	172.5	173.4	174.3
142.5°	167.2	167.4	167.8	168.1	168.6	168.9	169.4	169.8	170.6	171.1	172.0
145°	167.5	167.6	167.9	168.1	168.4	168.8	169.0	169.4	169.9	170.3	170.8
147.5°	166.4	166.5	166.7	166.9	167.2	167.4	167.6	167.7	168.0	168.3	168.6
150°	164.5	164.6	164.7	164.7	164.8	165.0	165.2	165.2	165.5	165.8	166.0
152.5°	161.3	161.4	161.4	161.4	161.5	161.7	161.7	161.8	162.1	162.4	162.6
155°	158.8	158.9	159.1	159.2	159.4	159.5	159.7	159.8	160.0	160.1	160.3
157.5°	157.4	157.5	157.7	157.8	158.0	158.0	158.1	158.3	158.5	158.6	158.7
160°	155.8	156.0	156.2	156.5	156.7	156.8	157.1	157.3	157.5	157.6	157.8
162.5°	155.8	155.9	156.1	156.2	156.3	156.5	156.6	156.8	157.1	157.3	157.4
165°	155.4	155.6	155.9	156.0	156.3	156.5	156.7	157.0	157.1	157.2	157.4
167.5°	156.2	156.4	156.7	156.8	157.1	157.3	157.5	157.7	157.8	157.9	158.0
170°	156.4	156.5	156.7	156.9	157.1	157.2	157.5	157.6	157.9	158.0	158.1
172.5°	157.7	157.7	157.9	158.0	158.1	158.2	158.4	158.6	158.8	159.0	159.0
175°	158.5	158.5	158.5	158.6	158.6	158.6	158.6	158.7	158.8	158.8	158.8
177.5°	158.8	158.8	158.9	159.0	159.1	159.1	159.2	159.3	159.3	159.3	159.3
180°	158.5	158.5	158.5	158.5	158.5	158.5	158.5	158.5	158.5	158.5	158.5



TEST NUMBER: P1444498
 CATALOG NUMBER: EHBR1-12-UNV-TA-L835-UPL12

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°	29.1	29.8	32.0	32.7	35.4	36.5	37.1	36.0	36.6	35.4	36.1
92.5°	29.2	31.3	33.4	35.4	37.4	39.5	37.6	35.7	33.8	31.9	30.1
95°	39.7	42.7	45.6	48.6	51.5	54.5	51.3	48.1	44.9	41.7	38.6
97.5°	46.6	49.7	52.9	56.1	59.3	62.5	58.8	55.0	51.2	47.5	43.8
100°	65.8	71.9	78.2	84.3	90.6	96.7	89.7	82.6	75.7	68.6	61.7
102.5°	132.5	146.6	160.7	174.9	189.0	203.1	188.2	173.4	158.5	143.6	128.7
105°	247.3	269.9	292.5	315.1	337.7	360.4	336.4	312.2	288.0	263.9	239.8
107.5°	364.5	386.5	408.7	430.6	452.7	474.8	450.4	425.9	401.4	377.0	352.6
110°	431.9	445.1	458.3	471.6	484.9	498.3	480.4	462.6	444.8	426.8	408.9



TEST NUMBER: P1444498
 CATALOG NUMBER: EHBR1-12-UNV-TA-L835-UPL12

CANDELA DISTRIBUTION (continued):

	302.5°	305°	307.5°	310°	312.5°	315°	317.5°	320°	322.5°	325°	327.5°
112.5°	444.8	451.5	458.0	464.8	471.4	478.1	465.3	452.6	439.7	427.0	414.3
115°	417.5	419.6	421.7	423.9	426.1	428.2	419.6	410.9	402.3	393.8	385.0
117.5°	367.0	366.8	366.4	366.1	365.6	365.4	360.5	355.8	350.8	346.1	341.1
120°	316.0	314.3	312.5	310.8	308.9	307.2	305.1	303.1	301.1	299.0	296.8
122.5°	271.6	270.5	269.3	268.0	266.7	265.5	264.7	263.9	263.2	262.3	261.5
125°	236.7	236.7	236.6	236.5	236.5	236.4	236.0	235.5	235.2	234.7	234.3
127.5°	212.7	213.5	214.3	215.1	215.8	216.5	216.3	216.3	216.2	216.1	215.9
130°	197.9	199.3	200.6	202.0	203.2	204.6	204.4	204.2	203.8	203.6	203.4
132.5°	189.0	190.4	192.0	193.6	195.1	196.6	196.3	196.1	195.7	195.5	195.2
135°	182.8	184.3	185.8	187.3	188.7	190.1	189.8	189.4	189.0	188.7	188.3
137.5°	178.6	179.8	180.8	182.0	183.2	184.3	183.8	183.5	183.2	182.8	182.5
140°	175.3	176.2	177.1	178.1	178.9	179.9	179.4	178.9	178.4	177.9	177.4
142.5°	172.6	173.4	173.9	174.7	175.3	176.1	175.4	174.7	174.0	173.5	172.8
145°	171.2	171.7	172.1	172.6	173.0	173.5	172.6	171.9	171.1	170.4	169.6
147.5°	168.9	169.2	169.4	169.6	169.8	170.2	169.4	168.6	167.9	167.2	166.4
150°	166.2	166.6	166.8	166.9	167.2	167.4	166.6	165.8	165.0	164.3	163.6
152.5°	162.8	163.1	163.3	163.4	163.6	163.8	163.1	162.4	161.6	160.9	160.2
155°	160.4	160.6	160.7	160.8	160.9	161.0	160.3	159.8	159.2	158.5	158.0
157.5°	158.8	159.0	159.1	159.2	159.3	159.4	158.9	158.4	158.0	157.6	157.0
160°	157.9	158.0	158.0	158.1	158.2	158.3	157.9	157.6	157.2	156.8	156.3
162.5°	157.6	157.9	158.0	158.0	158.3	158.4	158.0	157.7	157.1	156.6	156.1
165°	157.5	157.6	157.7	157.8	157.9	158.0	157.6	157.3	157.0	156.7	156.3
167.5°	158.1	158.2	158.3	158.4	158.4	158.5	158.2	158.0	157.7	157.3	157.0
170°	158.3	158.5	158.7	158.7	158.9	159.0	158.8	158.5	158.2	158.0	157.8
172.5°	159.2	159.4	159.5	159.6	159.7	159.9	159.6	159.3	159.0	158.7	158.4
175°	158.8	158.9	159.0	159.0	159.0	159.0	158.8	158.6	158.3	158.1	158.0
177.5°	159.3	159.3	159.3	159.3	159.3	159.3	159.2	159.0	158.9	158.7	158.5
180°	158.5	158.5	158.5	158.5	158.5	158.5	158.5	158.5	158.5	158.5	158.5



TEST NUMBER: P1444498
 CATALOG NUMBER: EHBR1-12-UNV-TA-L835-UPL12

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°	34.9	35.7	34.5	35.4	34.8	36.1	35.9	37.1	36.7	37.7	36.9
92.5°	28.1	26.3	24.3	22.5	21.5	20.6	19.8	18.6	17.8	16.8	15.8
95°	35.4	32.2	29.0	25.8	24.7	23.7	22.6	21.5	20.4	19.3	18.2
97.5°	40.0	36.3	32.5	28.7	27.7	26.9	25.8	24.8	23.9	23.0	22.0
100°	54.6	47.6	40.5	33.5	32.8	32.0	31.1	30.3	29.6	28.7	27.8
102.5°	113.8	99.0	84.1	69.1	66.3	63.5	60.7	57.8	54.9	52.1	49.3
105°	215.7	191.5	167.4	143.2	135.6	127.9	120.2	112.6	104.8	97.2	89.5
107.5°	328.0	303.5	279.1	254.5	240.4	226.1	212.0	197.8	183.5	169.4	155.2
110°	391.0	373.1	355.3	337.3	326.0	314.5	303.1	291.7	280.3	268.9	257.4



TEST NUMBER: P1444498
 CATALOG NUMBER: EHBR1-12-UNV-TA-L835-UPL12

CANDELA DISTRIBUTION (continued):

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
112.5°	401.5	388.6	375.8	362.9	357.8	352.7	347.5	342.3	337.1	331.9	326.7
115°	376.4	367.8	359.1	350.3	348.6	346.7	345.0	343.1	341.2	339.4	337.5
117.5°	336.4	331.4	326.6	321.7	321.9	322.2	322.6	322.9	323.1	323.3	323.6
120°	294.8	292.7	290.6	288.6	290.1	291.7	293.3	294.8	296.3	297.8	299.2
122.5°	260.6	259.9	259.0	258.1	260.1	262.0	263.8	265.7	267.4	269.2	270.9
125°	233.9	233.5	233.0	232.5	234.5	236.4	238.3	240.1	241.9	243.7	245.4
127.5°	215.8	215.7	215.6	215.4	216.9	218.2	219.5	220.8	222.0	223.2	224.5
130°	203.2	202.8	202.7	202.5	203.6	204.9	206.0	207.2	208.4	209.4	210.4
132.5°	194.9	194.5	194.2	193.9	194.8	195.7	196.5	197.2	198.1	198.8	199.4
135°	187.9	187.5	187.1	186.7	187.5	188.4	189.2	189.9	190.5	191.1	191.8
137.5°	182.1	181.6	181.3	180.8	181.6	182.3	183.1	183.6	184.2	184.8	185.4
140°	177.0	176.5	176.0	175.5	176.1	176.8	177.3	178.0	178.5	179.0	179.5
142.5°	172.1	171.3	170.8	170.1	170.6	171.0	171.4	171.8	172.3	172.6	172.9
145°	168.8	168.0	167.3	166.5	166.8	167.1	167.6	167.8	168.1	168.3	168.6
147.5°	165.7	164.9	164.2	163.4	163.8	164.0	164.3	164.4	164.7	164.8	165.0
150°	162.7	161.9	161.2	160.3	160.6	160.8	161.0	161.2	161.3	161.4	161.6
152.5°	159.4	158.6	157.9	157.1	157.3	157.4	157.6	157.7	157.9	158.0	158.0
155°	157.3	156.6	156.0	155.3	155.4	155.6	155.7	155.8	155.8	156.0	156.0
157.5°	156.5	155.9	155.4	154.8	154.9	154.9	154.9	154.8	154.9	154.9	154.8
160°	155.9	155.4	155.0	154.5	154.5	154.6	154.5	154.5	154.5	154.4	154.3
162.5°	155.6	155.0	154.6	154.1	154.1	154.1	154.1	154.0	154.0	154.0	153.8
165°	155.9	155.6	155.2	154.8	154.8	154.7	154.7	154.5	154.4	154.3	154.1
167.5°	156.6	156.2	155.9	155.4	155.5	155.4	155.4	155.4	155.4	155.3	155.3
170°	157.5	157.1	156.8	156.5	156.4	156.4	156.3	156.2	156.1	156.0	155.9
172.5°	158.1	157.9	157.6	157.2	157.2	157.1	157.1	157.0	156.9	156.8	156.8
175°	157.8	157.5	157.2	157.0	156.9	156.9	156.9	156.8	156.7	156.7	156.6
177.5°	158.3	158.2	158.0	158.0	157.9	157.9	157.9	157.8	157.8	157.8	157.8
180°	158.5	158.5	158.5	158.5	158.5	158.5	158.5	158.5	158.5	158.5	158.5



TEST NUMBER: P1444498
 CATALOG NUMBER: EHBR1-12-UNV-TA-L835-UPL12

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°	37.9	36.9
92.5°	15.0	14.2
95°	17.2	16.1
97.5°	21.1	20.2
100°	27.1	26.3
102.5°	46.4	43.6
105°	81.8	74.2
107.5°	141.0	126.8
110°	246.0	234.6



TEST NUMBER: P1444498
CATALOG NUMBER: EHBR1-12-UNV-TA-L835-UPL12

CANDELA DISTRIBUTION (continued):

	357.5°	360°
112.5°	321.5	316.3
115°	335.6	333.7
117.5°	323.8	324.0
120°	300.6	302.0
122.5°	272.7	274.3
125°	247.1	248.8
127.5°	225.5	226.6
130°	211.3	212.2
132.5°	200.0	200.5
135°	192.3	192.8
137.5°	185.8	186.2
140°	179.8	180.2
142.5°	173.2	173.4
145°	168.8	168.9
147.5°	164.9	165.1
150°	161.6	161.7
152.5°	158.0	158.1
155°	156.0	156.0
157.5°	154.8	154.7
160°	154.2	154.2
162.5°	153.8	153.7
165°	153.9	153.8
167.5°	155.1	155.1
170°	155.8	155.7
172.5°	156.7	156.6
175°	156.6	156.6
177.5°	157.8	157.7
180°	158.5	158.5

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

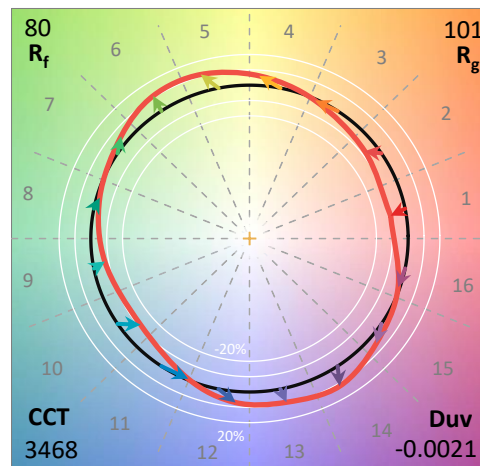
Test Information

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

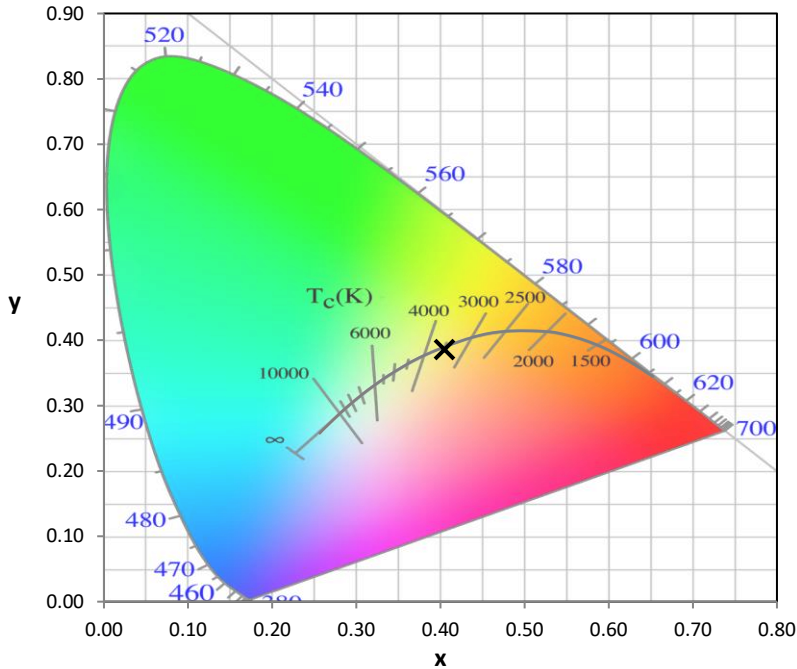
Stabilization Time: 39M
 Operation Time: 1H 39M
 Sphere Temperature (°C): 25.0

REPORT NUMBER: SP1-2506-472-3

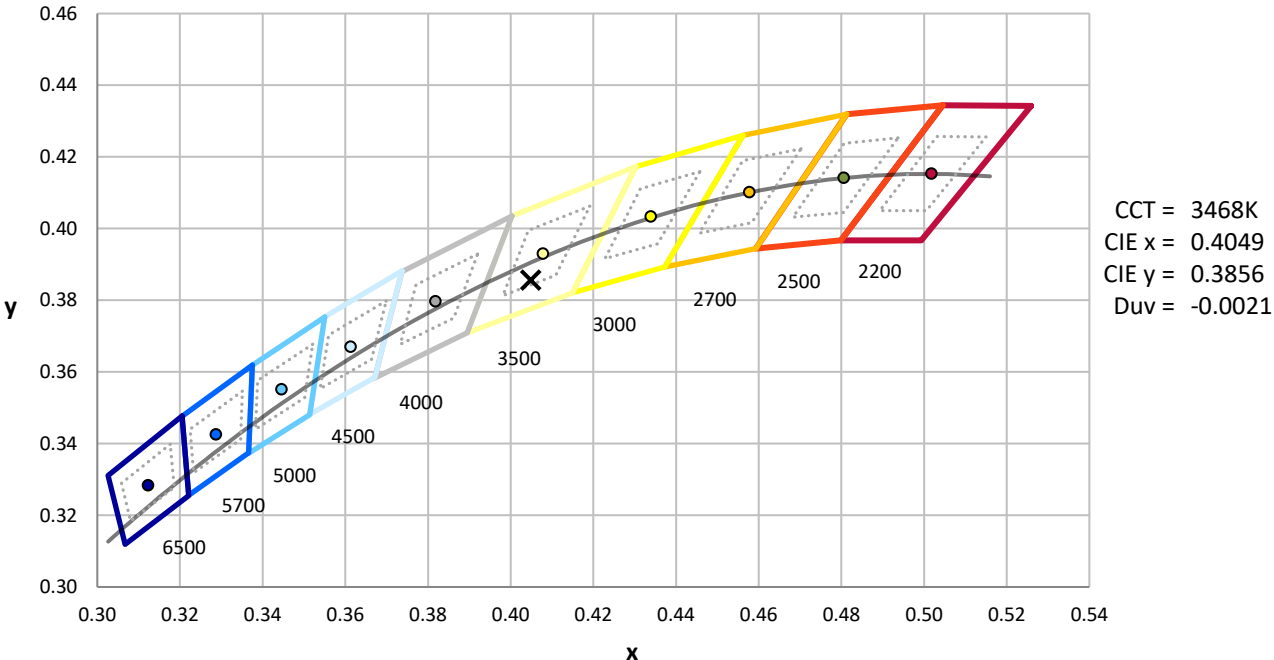
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	6/16/2025	12/16/2025
Power Meter	XITRON INXT2011004	1/21/2025	1/21/2026
AC Power Source	CHROMA 61603 IN0063	10/22/2024	10/22/2025
DC Power Source	AGILENT E3634A IN0208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

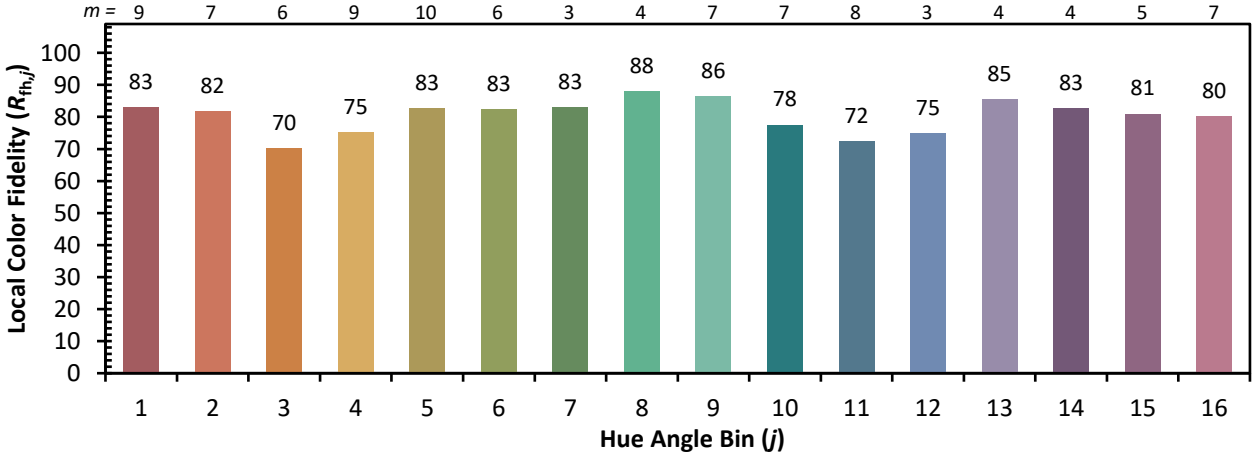


Individual Sample Fidelity Index ($R_{f,i}$)

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)