

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: P1444474

Luminaire Tested: EHBR1-48-UNV-TA-L830-UPL12

Issue Date: 5/1/2026

Test Information

Test Method: LM-79-2019
Report Number: P1444474
REPORT IS A COMBINATION OF REPORTS P1444306 AND P1431635
Test Lab: INNOVATION CENTER
Issue Date: 5/1/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: EHBR1-48-UNV-TA-L830-UPL12
Description: Elevate Round Highbay at, 48000 lumens, 3000K 80CRI LEDs with TA lens
Light Source: -
Ballast/Driver: -

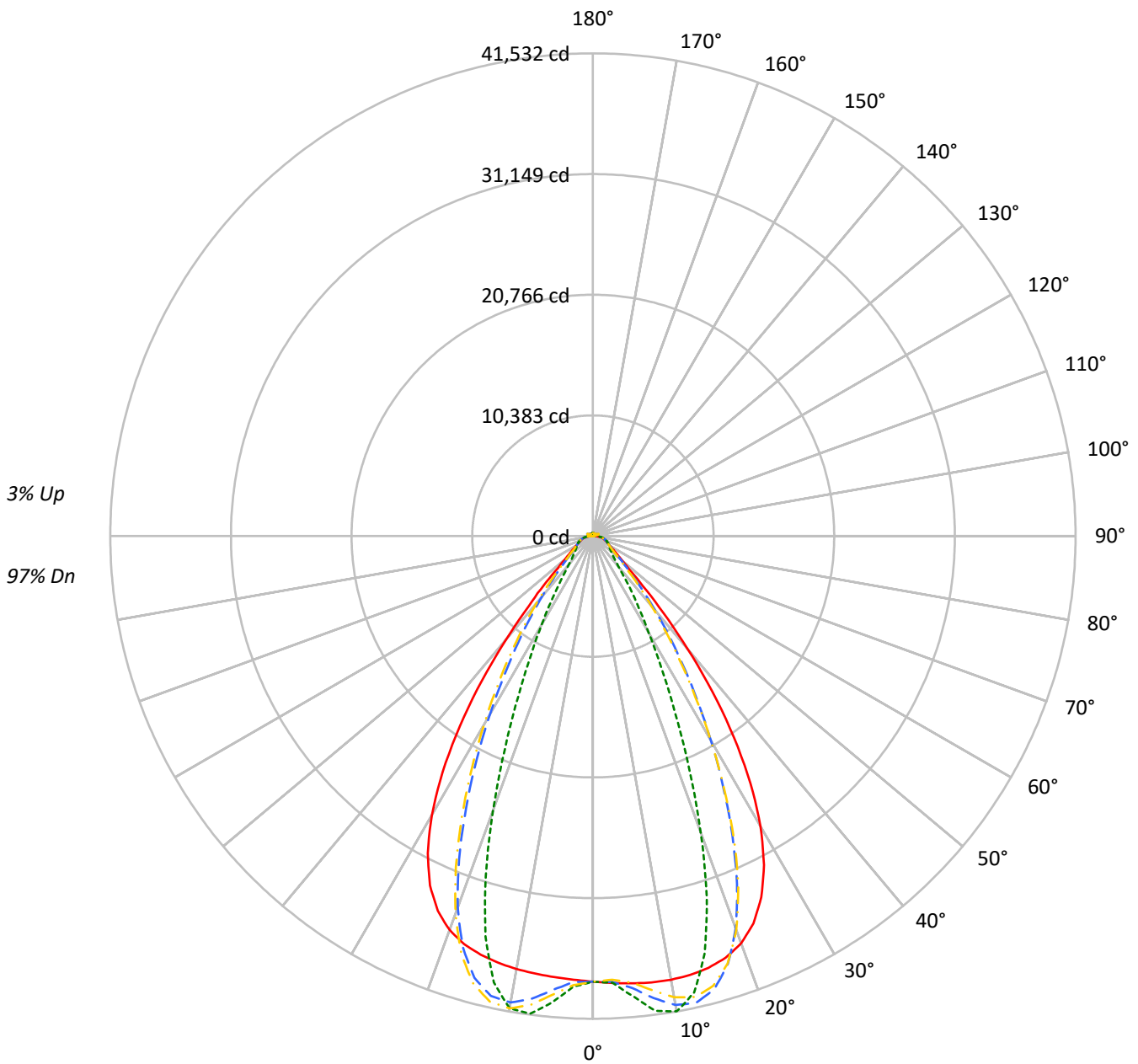
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45517.5 lumens
Efficiency: N/A
Efficacy: 171.1 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): 266
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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CATALOG NUMBER: EHBR1-48-UNV-TA-L830-UPL12

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	0
RCR																		
0	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	97
1	111	108	105	102	108	105	103	100	101	98	96	96	95	93	92	91	90	88
2	104	99	94	90	102	97	92	88	93	89	86	89	86	84	86	84	81	79
3	98	91	85	80	96	89	83	79	86	81	77	83	79	76	80	77	74	72
4	92	84	77	72	90	82	76	72	80	74	70	77	73	69	75	71	68	66
5	87	78	71	66	85	76	70	65	74	69	65	72	67	64	70	66	63	61
6	82	72	65	60	80	71	65	60	69	64	59	67	63	59	66	61	58	56
7	78	67	61	56	76	66	60	56	65	59	55	63	58	55	62	57	54	52
8	74	63	56	52	72	62	56	52	61	55	51	60	54	51	58	54	50	49
9	70	59	53	48	68	59	52	48	57	52	48	56	51	47	55	50	47	46
10	66	56	49	45	65	55	49	45	54	49	45	53	48	44	52	47	44	43

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	180035	180035	180035	180035
5°	180906	186182	178375	188620
10°	182417	195477	178042	194184
15°	183312	177198	177731	170063
20°	181417	132006	175479	122137
25°	171718	83487	166043	75749
30°	150008	50170	144198	45850
35°	115447	31481	108807	27887
40°	73031	19747	66817	18556
45°	37641	15384	37018	15131
50°	22069	13684	21392	13471
55°	16907	12947	16282	12830
60°	14306	13225	13696	13054
65°	13437	13811	12922	13340
70°	13128	14462	12474	13918
75°	14037	15337	13277	14658
80°	14525	16983	13169	15504
85°	13678	16387	11053	14030

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 25°
 Vertical Angle: 45°
 Luminance: 57605 cd/sqm



TEST NUMBER: P1444474
 CATALOG NUMBER: EHBR1-48-UNV-TA-L830-UPL12

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3778.2	8.3
10°-20°	10628.5	23.4
20°-30°	12105.0	26.6
30°-40°	8700.5	19.1
40°-50°	4012.7	8.8
50°-60°	1920.2	4.2
60°-70°	1401.1	3.1
70°-80°	1064.4	2.3
80°-90°	486.2	1.1
90°-100°	45.5	0.1
100°-110°	208.8	0.5
110°-120°	384.6	0.8
120°-130°	249.1	0.5
130°-140°	178.1	0.4
140°-150°	146.4	0.3
150°-160°	111.2	0.2
160°-170°	71.6	0.2
170°-180°	25.4	0.1
0°-30°	26511.7	58.2
0°-40°	35212.3	77.4
0°-60°	41145.2	90.4
0°-90°	44096.9	96.9
90°-120°	638.8	1.4
90°-150°	1212.3	2.7
90°-180°	1421.0	3.1
0°-180°	45517.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	38337	38337	38337	38337	38337	
5°	38626	39753	38086	40273	38626	3691
15°	38458	37175	37287	35678	38458	10836
25°	34292	16672	33159	15127	34292	15545
35°	21189	5778	19970	5118	21189	13004
45°	6090	2489	5989	2448	6090	5180
55°	2285	1750	2200	1734	2285	2109
65°	1402	1442	1349	1392	1402	1401
75°	989	1080	935	1033	989	1028
85°	470	563	380	482	470	442
90°	115	149	24	32	115	73
95°	20	22	20	22	20	19
105°	80	99	57	100	80	105
115°	341	402	357	402	341	316
125°	276	270	310	272	276	251
135°	244	198	260	202	244	190
145°	240	216	252	222	240	151
155°	240	232	252	237	240	111
165°	253	248	261	251	253	72
175°	267	268	271	269	267	25
180°	271	271	271	271	271	



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CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
0°	38337.2	38337.2	38337.2	38337.2	38337.2	38337.2	38337.2	38337.2	38337.2	38337.2	38337.2
2.5°	38483.7	38480.5	38479.9	38477.3	38476.5	38476.5	38475.2	38472.1	38470.2	38465.8	38460.8
5°	38626.4	38624.7	38625.8	38626.0	38623.3	38617.3	38608.0	38596.4	38581.9	38568.3	38556.1
7.5°	38736.8	38739.6	38742.9	38742.2	38733.8	38719.8	38700.6	38689.8	38696.2	38717.1	38764.9
10°	38757.0	38773.5	38779.8	38777.9	38761.1	38749.0	38753.7	38794.4	38875.2	38983.0	39130.5
12.5°	38678.4	38698.6	38697.9	38691.2	38675.0	38691.5	38750.3	38871.3	39044.6	39257.3	39506.7
15°	38457.8	38483.9	38476.5	38467.8	38457.1	38511.2	38628.7	38838.7	39106.4	39406.3	39713.4
17.5°	38029.3	38060.9	38045.6	38035.8	38026.7	38128.2	38330.0	38637.5	38974.7	39314.0	39605.0
20°	37286.4	37307.5	37271.0	37253.8	37268.3	37467.0	37764.4	38157.1	38512.5	38833.3	39032.2
22.5°	36073.6	36099.9	36031.3	36023.3	36108.1	36413.3	36789.6	37228.7	37562.5	37816.8	37893.4
25°	34291.9	34317.8	34236.2	34284.9	34429.0	34844.9	35293.0	35762.6	36047.5	36235.9	36183.8
27.5°	31887.1	31910.7	31833.3	31932.8	32160.6	32707.0	33234.4	33743.8	33997.7	34129.6	33962.4
30°	28854.0	28903.0	28811.7	28950.5	29298.2	30007.6	30611.8	31183.0	31436.2	31536.6	31276.3
32.5°	25251.7	25321.4	25220.7	25427.2	25912.4	26764.6	27451.0	28089.2	28369.3	28483.9	28190.0
35°	21188.7	21288.7	21173.2	21483.2	22081.5	23030.5	23790.6	24503.2	24834.8	24997.4	24701.1
37.5°	16884.2	16979.5	16917.0	17330.6	17987.6	18971.3	19747.1	20515.8	20890.3	21134.3	20900.7
40°	12658.1	12745.3	12792.6	13265.7	13883.5	14810.7	15555.8	16316.4	16735.4	17041.6	16897.6
42.5°	8934.1	9022.1	9182.9	9639.3	10154.6	10922.0	11560.4	12243.3	12643.4	12970.1	12914.6
45°	6090.2	6192.4	6393.8	6767.5	7140.2	7690.8	8159.5	8690.6	9017.5	9316.8	9320.3
47.5°	4267.7	4339.5	4519.5	4774.7	5017.7	5706.9	5735.2	5996.2	6215.9	6439.6	6468.5
50°	3289.1	3332.2	3427.7	3570.0	3707.6	3886.5	4050.3	4239.5	4374.7	4497.3	4526.6
52.5°	2703.4	2730.8	2779.4	2856.4	2936.3	3033.6	3121.3	3225.1	3298.7	3364.4	3378.1
55°	2284.8	2307.6	2379.9	2394.5	2485.8	2503.4	2542.4	2605.6	2648.5	2687.8	2697.5
57.5°	1969.0	1985.4	2000.8	2033.6	2061.8	2102.6	2135.6	2180.9	2207.9	2236.4	2238.8
60°	1719.8	1731.7	1742.7	1765.4	1784.5	1813.0	1835.7	1866.5	1885.9	1907.1	1909.6
62.5°	1534.3	1542.9	1550.2	1565.1	1578.8	1600.7	1618.7	1644.5	1662.5	1679.0	1682.7
65°	1402.5	1408.7	1413.4	1424.8	1436.7	1455.4	1471.7	1492.7	1505.9	1518.6	1521.3
67.5°	1285.7	1291.6	1296.5	1306.9	1315.1	1329.0	1340.0	1355.8	1365.7	1375.7	1376.0
70°	1151.9	1157.4	1161.1	1170.8	1177.4	1189.3	1198.1	1212.4	1222.6	1233.8	1236.6
72.5°	1059.2	1062.5	1067.5	1076.3	1085.6	1098.3	1110.1	1124.9	1137.3	1148.9	1153.8
75°	988.8	992.6	995.8	1003.4	1009.8	1020.5	1029.3	1042.8	1053.7	1066.2	1072.3
77.5°	887.1	891.5	894.3	901.8	907.3	917.7	924.3	936.3	945.1	956.5	962.0
80°	764.1	768.2	770.3	777.4	781.8	791.2	797.6	809.3	816.7	828.1	834.7
82.5°	627.9	631.8	632.9	639.7	642.1	649.9	654.6	666.5	675.6	690.4	700.6
85°	470.1	471.5	473.9	472.1	481.7	482.2	493.0	495.1	509.2	512.9	529.1
87.5°	287.5	291.7	293.8	300.4	303.2	309.8	311.7	318.7	322.5	330.5	334.2
90°	114.6	120.6	122.3	129.6	131.1	137.5	138.7	145.9	147.6	155.1	157.3
92.5°	18.4	19.3	20.0	21.4	22.3	24.0	25.4	26.6	27.5	29.2	31.2
95°	20.4	21.5	22.5	23.5	24.5	25.7	26.7	27.7	28.8	29.8	32.7
97.5°	25.0	25.9	26.8	27.7	28.7	29.5	30.4	31.4	32.2	33.0	36.6
100°	31.6	32.3	33.1	33.9	34.7	35.4	36.2	37.0	37.7	38.5	45.1
102.5°	49.6	52.3	55.0	57.7	60.4	63.1	65.9	68.6	71.3	74.0	88.1
105°	80.4	87.6	95.2	102.4	109.8	117.3	124.7	131.8	139.2	146.5	169.8
107.5°	132.9	146.5	160.3	173.9	187.6	201.2	214.9	228.5	242.0	255.4	279.1
110°	239.3	250.1	261.2	272.0	282.9	293.8	304.8	315.4	326.4	337.2	354.5



TEST NUMBER: P1444474
 CATALOG NUMBER: EHBR1-48-UNV-TA-L830-UPL12

CANDELA DISTRIBUTION (continued):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
112.5°	321.0	325.8	330.6	335.5	340.4	345.0	349.9	354.6	359.5	364.1	376.3
115°	341.0	342.5	344.2	345.6	347.2	348.6	350.1	351.5	353.1	354.4	362.5
117.5°	335.3	334.8	334.2	333.7	332.9	332.3	331.7	330.8	330.1	329.3	333.8
120°	318.5	316.5	314.8	312.7	310.9	308.7	306.9	304.8	302.7	300.4	302.2
122.5°	296.2	293.9	292.0	289.4	287.2	284.8	282.5	279.6	277.4	274.8	274.9
125°	276.4	274.1	272.1	269.6	267.0	264.5	262.0	259.4	256.8	253.9	253.8
127.5°	260.2	258.5	256.8	254.7	252.7	250.6	248.5	246.2	244.2	241.7	241.2
130°	251.7	250.2	248.4	246.5	244.7	242.5	240.4	238.2	236.1	233.8	233.1
132.5°	245.9	244.7	243.3	241.8	240.1	238.0	236.3	234.2	232.4	230.5	229.8
135°	243.8	242.4	241.3	239.7	238.1	236.1	234.3	232.3	230.5	228.4	227.9
137.5°	242.6	241.4	240.3	238.6	237.1	235.0	233.4	231.4	229.6	227.5	227.0
140°	241.7	240.6	239.3	237.7	236.3	234.6	232.8	231.0	229.1	227.2	226.7
142.5°	239.8	238.7	237.6	236.2	235.0	233.2	231.7	229.9	228.3	226.5	226.2
145°	239.5	238.6	237.7	236.4	235.1	233.5	232.1	230.3	229.0	227.3	227.1
147.5°	239.5	238.6	237.9	236.8	235.8	234.2	233.0	231.4	230.1	228.7	228.6
150°	239.5	238.8	238.1	237.1	236.0	234.6	233.4	232.1	230.8	229.4	229.2
152.5°	238.8	237.9	237.4	236.3	235.4	233.9	233.1	231.6	230.5	229.2	229.0
155°	240.0	239.2	238.3	237.5	236.4	235.4	234.2	233.1	232.0	230.8	230.6
157.5°	242.3	241.4	240.7	239.7	239.0	237.9	237.0	236.1	235.1	234.1	233.7
160°	245.7	244.9	244.1	243.3	242.3	241.2	240.4	239.4	238.8	237.6	237.5
162.5°	249.4	248.4	247.6	246.7	246.0	244.9	244.1	243.4	242.5	241.5	241.2
165°	253.3	252.7	252.1	251.3	250.6	249.9	249.2	248.3	247.7	246.7	246.5
167.5°	258.5	257.8	257.3	256.6	255.7	255.2	254.3	253.6	253.1	252.2	252.0
170°	262.3	261.5	261.2	260.7	260.1	259.6	259.1	258.5	258.0	257.4	257.3
172.5°	265.4	264.8	264.5	264.2	263.7	263.4	262.9	262.6	262.3	261.7	261.8
175°	267.1	266.7	266.6	266.3	266.0	265.7	265.6	265.3	265.3	264.9	264.8
177.5°	269.4	269.2	269.2	269.1	269.1	268.9	268.8	268.6	268.4	268.4	268.4
180°	270.9	270.9	270.9	270.9	270.9	270.9	270.9	270.9	270.9	270.9	270.9



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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°	38337.2	38337.2	38337.2	38337.2	38337.2	38337.2	38337.2	38337.2	38337.2	38337.2	38337.2
2.5°	38457.1	38452.4	38446.0	38437.8	38430.9	38422.9	38403.7	38397.9	38404.3	38408.6	38417.4
5°	38548.4	38551.1	38552.1	38569.5	38584.6	38622.3	38917.3	39034.4	39125.1	39182.7	39270.0
7.5°	38824.0	38912.6	39000.2	39118.2	39219.9	39357.3	39873.4	40093.0	40249.2	40361.4	40499.5
10°	39290.8	39484.3	39665.8	39878.3	40061.1	40270.3	40750.7	40964.7	41099.8	41198.1	41289.9
12.5°	39761.1	40029.5	40272.0	40508.6	40706.4	40887.8	41056.7	41131.6	41138.0	41141.1	41092.4
15°	40006.1	40262.7	40476.3	40632.7	40749.0	40800.4	40509.6	40357.0	40164.2	40005.3	39744.0
17.5°	39851.4	40005.3	40097.7	40088.6	40040.6	39879.7	39056.0	38602.8	38153.0	37747.7	37216.1
20°	39164.2	39152.4	39072.1	38844.7	38570.6	38144.4	36732.0	35917.2	35129.4	34437.4	33598.0
22.5°	37885.6	37684.5	37403.9	36913.4	36368.6	35624.0	33600.0	32401.4	31304.6	30335.8	29250.4
25°	36033.0	35619.1	35101.8	34323.2	33476.4	32390.3	29895.8	28404.9	27088.1	25946.0	24693.7
27.5°	33662.0	33038.7	32280.5	31202.8	30055.6	28664.2	25898.6	24253.3	22839.7	21615.2	20282.4
30°	30855.1	30044.3	29065.3	27727.7	26344.0	24765.9	21961.0	20294.5	18863.6	17603.9	16270.1
32.5°	27683.0	26733.3	25586.1	24084.9	22588.5	20965.9	18257.0	16643.9	15277.1	14065.2	12858.0
35°	24184.3	23165.9	21952.2	20421.0	18933.6	17356.0	14870.4	13415.9	12209.0	11137.8	10163.0
37.5°	20431.4	19431.5	18277.9	16834.7	15455.4	14025.9	11881.2	10662.4	9649.5	8760.5	8007.7
40°	16529.4	15654.3	14656.2	13408.6	12231.5	11040.9	9280.3	8312.9	7513.6	6835.5	6271.5
42.5°	12675.2	11997.0	11231.6	10245.7	9344.9	8438.4	7083.4	6366.5	5774.5	5286.4	4887.7
45°	9196.2	8742.6	8229.3	7543.9	6920.5	6288.2	5323.8	4820.1	4434.6	4119.8	3853.7
47.5°	6428.6	6165.5	6149.5	5516.1	5059.0	4672.4	4051.1	3732.9	3496.6	3305.9	3137.4
50°	4514.7	4387.4	4229.2	4003.1	3791.0	3572.5	3194.0	3001.6	2863.2	2747.7	2641.1
52.5°	3375.1	3308.9	3224.7	3104.8	2989.8	2866.9	2627.4	2504.9	2461.4	2353.9	2269.5
55°	2695.8	2657.8	2609.9	2539.4	2469.5	2441.5	2236.2	2145.3	2087.7	2045.3	2000.0
57.5°	2239.2	2210.9	2182.5	2134.8	2094.3	2045.3	1936.3	1889.7	1855.4	1830.4	1799.0
60°	1910.0	1893.1	1877.2	1849.2	1827.3	1800.9	1731.7	1705.4	1687.5	1672.5	1652.4
62.5°	1685.8	1677.2	1668.9	1653.9	1642.9	1628.6	1581.3	1568.6	1559.6	1552.1	1539.9
65°	1523.9	1517.7	1513.2	1503.2	1497.7	1489.3	1448.7	1440.2	1434.6	1431.9	1424.8
67.5°	1377.0	1370.4	1367.4	1360.3	1358.0	1352.8	1319.5	1314.9	1313.0	1313.8	1311.3
70°	1239.4	1236.6	1238.1	1236.9	1240.1	1241.0	1220.9	1220.8	1222.9	1227.2	1227.6
72.5°	1156.9	1156.9	1158.5	1159.3	1162.3	1163.7	1146.9	1146.1	1147.0	1150.2	1150.3
75°	1078.5	1079.8	1084.1	1085.6	1089.0	1089.8	1067.6	1065.0	1065.2	1068.1	1067.2
77.5°	970.0	974.6	982.8	987.0	993.8	995.2	970.2	967.3	967.4	970.4	967.9
80°	846.8	855.8	868.7	877.6	888.2	892.4	866.8	860.7	855.0	854.2	849.1
82.5°	715.9	726.9	742.3	750.5	761.7	764.3	721.5	713.4	708.5	709.0	704.3
85°	546.6	554.8	568.9	573.5	580.4	579.8	530.9	510.0	515.7	506.9	513.8
87.5°	342.8	347.7	356.5	357.6	360.9	360.2	311.0	301.3	298.5	298.6	295.1
90°	164.9	167.9	175.2	174.9	179.6	178.6	138.4	133.5	130.3	132.5	128.0
92.5°	33.6	35.4	37.7	39.6	41.9	43.9	41.6	42.2	40.7	38.4	37.0
95°	35.8	38.9	42.0	45.0	48.1	51.1	54.2	57.3	54.4	51.5	48.6
97.5°	40.3	43.9	47.5	51.1	54.7	58.4	62.0	65.7	62.6	59.2	56.1
100°	52.0	58.7	65.4	72.1	78.9	85.6	92.5	99.2	93.3	87.0	81.1
102.5°	102.4	116.7	131.0	145.3	159.6	173.9	188.5	202.9	189.1	175.3	161.4
105°	193.0	216.3	239.4	262.4	285.5	308.8	332.4	355.6	333.7	311.6	289.8
107.5°	302.6	326.2	349.4	372.7	396.2	419.6	443.8	467.3	445.8	424.1	402.8
110°	371.5	388.4	405.4	422.5	439.3	456.4	474.3	491.3	478.3	465.2	452.1



TEST NUMBER: P1444474
 CATALOG NUMBER: EHBR1-48-UNV-TA-L830-UPL12

CANDELA DISTRIBUTION (continued):

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
112.5°	388.2	400.3	412.4	424.1	436.0	448.1	461.4	473.7	466.9	459.9	453.3
115°	370.3	378.4	386.1	394.1	401.9	409.7	419.2	427.5	424.9	422.4	419.8
117.5°	337.9	342.0	346.2	350.4	354.4	358.5	364.7	369.2	368.9	368.7	368.5
120°	303.4	304.9	306.2	307.7	308.9	310.1	313.9	315.8	316.9	317.8	318.9
122.5°	275.1	275.2	275.2	275.3	275.4	275.3	278.2	278.9	279.2	279.6	280.1
125°	253.5	253.0	252.6	252.3	251.7	251.3	254.2	254.3	253.7	252.8	252.2
127.5°	240.5	239.7	239.0	238.3	237.3	236.6	239.2	239.1	237.6	236.1	234.5
130°	232.5	231.8	231.1	230.4	229.8	229.1	232.0	232.2	230.1	227.7	225.7
132.5°	229.0	228.5	227.6	227.2	226.5	225.7	229.0	229.3	227.1	224.5	222.2
135°	227.2	226.6	225.9	225.3	224.7	224.2	227.9	228.3	226.1	223.6	221.3
137.5°	226.0	225.6	225.0	224.5	223.9	223.4	227.5	228.1	226.2	224.0	222.1
140°	226.1	225.6	225.1	224.8	224.2	224.1	228.6	229.2	227.6	225.9	224.2
142.5°	225.6	225.5	225.2	225.2	224.8	224.8	230.0	230.9	229.6	228.1	226.8
145°	226.7	226.7	226.5	226.6	226.5	226.7	232.4	233.8	232.9	231.6	230.5
147.5°	227.9	227.9	227.8	227.8	227.7	228.2	234.5	235.9	235.2	234.2	233.5
150°	228.9	228.9	228.7	228.9	229.2	229.5	236.7	238.5	237.8	237.2	236.5
152.5°	228.7	228.7	228.7	228.7	228.7	229.1	238.1	240.3	239.8	239.0	238.6
155°	230.3	230.1	230.0	230.0	229.9	230.2	240.2	242.6	242.1	241.7	241.1
157.5°	233.4	233.1	232.7	232.7	232.6	232.5	243.3	246.0	245.4	245.0	244.6
160°	236.9	236.7	236.2	236.1	235.8	235.7	246.8	249.4	249.2	248.6	248.1
162.5°	240.8	241.0	240.5	240.4	240.1	240.3	251.3	254.2	253.6	253.1	252.6
165°	246.3	245.8	245.5	245.4	245.1	244.9	255.5	258.1	257.8	257.2	256.8
167.5°	251.6	251.5	251.1	251.0	250.9	250.9	260.7	263.1	262.8	262.2	261.9
170°	257.0	257.0	256.8	256.8	256.8	256.8	265.1	267.1	266.9	266.2	265.9
172.5°	261.7	261.8	261.8	261.8	261.8	262.0	268.9	270.8	270.5	270.1	269.7
175°	264.8	264.8	264.9	265.1	265.1	265.3	270.7	272.0	271.8	271.6	271.3
177.5°	268.6	268.5	268.6	268.7	268.9	269.0	272.3	273.1	273.0	273.0	272.9
180°	270.9	270.9	270.9	270.9	270.9	270.9	270.9	270.9	270.9	270.9	270.9



TEST NUMBER: P1444474
 CATALOG NUMBER: EHBR1-48-UNV-TA-L830-UPL12

CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
0°	38337.2	38337.2	38337.2	38337.2	38337.2	38337.2	38337.2	38337.2	38337.2	38337.2	38337.2
2.5°	38419.4	38432.9	38434.9	38450.7	38449.4	38468.1	38465.2	38480.5	38471.6	38484.2	38473.5
5°	39321.7	39403.6	39446.4	39526.2	39551.5	39623.0	39643.2	39708.4	39711.1	39762.8	39751.0
7.5°	40597.5	40718.2	40789.7	40888.5	40938.5	41020.8	41057.0	41117.9	41137.4	41185.8	41189.4
10°	41359.3	41417.9	41458.8	41486.4	41511.6	41523.4	41537.1	41533.4	41537.1	41531.7	41543.5
12.5°	41059.7	40974.2	40917.6	40810.5	40748.4	40630.0	40572.0	40458.1	40416.8	40319.0	40305.0
15°	39542.1	39244.1	39033.5	38727.2	38534.6	38233.3	38057.0	37785.1	37660.9	37444.8	37388.2
17.5°	36776.1	36222.8	35794.5	35245.3	34864.1	34350.7	34027.9	33602.9	33370.3	33027.5	32908.9
20°	32898.2	32079.6	31437.3	30672.1	30124.6	29442.3	29005.5	28454.6	28134.8	27713.9	27543.3
22.5°	28345.5	27326.2	26524.0	25620.1	24959.5	24199.1	23675.9	23079.9	22731.9	22274.7	22072.1
25°	23652.9	22529.0	21637.1	20684.7	19986.7	19224.5	18701.1	18115.6	17755.6	17321.5	17120.3
27.5°	19165.1	18027.2	17165.4	16279.9	15639.6	14951.8	14479.6	13968.4	13648.8	13278.3	13089.0
30°	15204.5	14201.0	13467.5	12732.7	12200.0	11641.5	11249.0	10825.4	10545.0	10227.7	10047.5
32.5°	11977.8	11203.0	10628.7	10045.6	9609.7	9142.9	8803.8	8430.0	8177.0	7893.6	7730.4
35°	9486.2	8884.2	8426.2	7946.2	7571.7	7174.2	6875.3	6552.7	6325.6	6081.7	5940.7
37.5°	7495.1	7016.4	6639.5	6240.8	5933.2	5603.9	5492.9	5122.6	4887.4	4692.7	4557.8
40°	5882.2	5501.6	5189.6	4884.7	4633.9	4384.1	4183.6	3985.8	3833.9	3694.7	3598.4
42.5°	4593.5	4317.8	4090.0	3866.6	3683.6	3501.6	3356.4	3220.1	3117.8	3026.8	2964.7
45°	3651.7	3462.0	3303.7	3146.4	3017.2	2895.7	2798.0	2711.0	2645.0	2590.3	2551.5
47.5°	2999.9	2870.1	2758.4	2652.3	2564.6	2485.0	2419.5	2398.2	2327.2	2279.3	2261.1
50°	2549.5	2471.1	2386.3	2308.0	2249.4	2191.1	2148.7	2107.0	2080.5	2058.5	2051.8
52.5°	2213.3	2153.4	2106.2	2056.6	2018.0	1976.5	1947.2	1919.5	1904.9	1893.4	1892.0
55°	1963.4	1921.5	1890.3	1857.0	1833.9	1809.5	1794.4	1779.7	1773.3	1767.5	1767.9
57.5°	1774.3	1746.3	1726.0	1704.4	1691.9	1680.3	1676.4	1672.8	1674.7	1675.6	1678.9
60°	1636.5	1618.4	1605.5	1593.2	1587.9	1584.3	1587.1	1590.3	1597.0	1602.4	1607.2
62.5°	1531.0	1520.6	1514.3	1507.6	1507.1	1507.4	1513.1	1518.6	1526.9	1533.2	1537.9
65°	1422.2	1416.3	1414.2	1410.0	1412.2	1413.4	1420.2	1424.5	1432.9	1437.8	1443.8
67.5°	1312.4	1311.0	1312.2	1312.2	1316.1	1319.4	1325.9	1330.8	1337.8	1342.4	1347.3
70°	1231.3	1231.9	1234.9	1235.4	1239.5	1241.8	1247.5	1250.6	1257.0	1260.8	1266.6
72.5°	1152.4	1151.1	1151.9	1150.0	1151.4	1150.8	1154.0	1155.5	1161.0	1164.0	1171.1
75°	1068.4	1064.9	1064.0	1060.3	1060.4	1057.6	1058.9	1058.8	1062.3	1063.7	1068.9
77.5°	967.0	961.1	958.2	951.8	951.7	949.3	951.8	953.4	959.7	962.6	968.5
80°	845.7	836.3	832.1	824.7	825.9	825.5	831.7	836.5	844.1	845.6	852.9
82.5°	702.9	693.4	688.9	681.5	683.2	683.4	689.1	690.1	696.7	699.6	708.2
85°	503.3	506.9	496.8	497.6	495.4	499.5	503.3	508.1	513.6	522.9	530.0
87.5°	296.4	295.1	298.6	299.1	304.2	306.9	315.1	319.8	329.1	336.3	349.4
90°	128.4	123.9	127.0	125.7	130.9	129.6	134.4	132.3	138.0	138.6	145.9
92.5°	34.5	33.0	30.5	28.9	26.6	25.2	23.7	23.3	21.9	21.5	20.1
95°	45.8	42.9	40.1	37.2	34.4	31.5	30.4	29.4	28.3	27.3	26.2
97.5°	53.0	50.0	46.9	43.7	40.6	37.5	36.8	36.1	35.4	34.7	34.0
100°	74.9	69.0	63.0	57.0	51.1	45.1	44.6	44.0	43.5	42.9	42.3
102.5°	147.8	133.9	120.4	106.6	93.0	79.2	76.8	74.4	72.0	69.7	67.3
105°	267.7	245.7	223.8	201.9	180.0	158.1	151.7	144.8	138.4	131.8	125.3
107.5°	381.2	359.7	338.3	317.0	295.6	274.2	263.8	253.6	243.0	232.7	222.5
110°	438.8	425.8	413.0	399.8	387.0	374.0	364.0	354.2	344.1	334.2	324.5



TEST NUMBER: P1444474
 CATALOG NUMBER: EHBR1-48-UNV-TA-L830-UPL12

CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
112.5°	446.4	439.7	432.9	426.2	419.6	412.9	408.0	403.1	398.3	393.3	388.3
115°	417.2	414.8	412.3	409.9	407.7	405.2	404.7	404.2	403.5	403.1	402.8
117.5°	368.2	368.0	367.8	367.8	367.7	367.7	369.9	372.1	374.4	376.9	379.5
120°	320.0	321.0	321.9	323.2	324.3	325.6	328.4	331.6	334.6	338.0	341.3
122.5°	280.5	280.9	281.2	281.9	282.3	283.0	285.6	288.6	291.5	294.6	298.0
125°	251.1	250.3	249.5	248.6	247.8	247.3	249.3	251.4	253.8	256.3	258.7
127.5°	232.7	230.9	229.1	227.6	225.7	224.3	225.1	226.1	227.0	228.2	229.4
130°	223.2	221.0	218.3	216.3	213.7	211.6	211.4	211.3	211.2	211.3	211.3
132.5°	219.6	217.1	214.5	211.9	209.4	206.8	205.8	205.0	204.0	203.5	202.8
135°	218.8	216.6	213.9	211.4	208.8	206.5	205.1	203.8	202.6	201.5	200.5
137.5°	220.0	218.0	215.8	213.9	211.4	209.4	207.8	206.5	204.9	203.9	202.5
140°	222.3	220.7	218.6	216.8	215.0	213.3	211.7	210.7	209.2	208.2	207.0
142.5°	225.1	223.7	222.2	220.7	219.2	217.7	216.4	215.2	213.9	212.9	211.8
145°	229.4	228.3	227.1	225.9	224.6	223.6	222.2	221.3	220.2	219.3	218.6
147.5°	232.6	231.6	230.7	229.8	228.7	227.8	226.8	226.2	225.1	224.5	223.7
150°	235.6	234.7	233.8	233.2	232.1	231.4	230.6	230.0	229.1	228.7	228.0
152.5°	237.5	236.9	236.1	235.6	234.6	233.8	233.1	232.7	232.0	231.6	230.8
155°	240.5	239.9	239.1	238.6	237.7	237.3	236.6	235.9	235.3	234.7	234.1
157.5°	244.0	243.5	242.7	242.3	241.5	240.9	240.4	239.8	239.0	238.6	237.9
160°	247.6	247.2	246.4	245.9	245.3	244.8	243.9	243.5	242.7	242.2	241.4
162.5°	252.0	251.3	250.8	250.2	249.4	248.9	248.2	247.7	247.0	246.4	245.8
165°	256.2	255.6	255.1	254.5	254.0	253.5	252.7	252.2	251.5	250.9	250.2
167.5°	261.3	261.0	260.4	259.9	259.3	258.7	258.2	257.6	256.9	256.3	255.5
170°	265.5	264.8	264.4	263.9	263.4	262.7	262.2	261.5	261.0	260.6	259.7
172.5°	269.3	269.1	268.6	268.3	267.6	267.2	266.9	266.4	265.9	265.5	265.1
175°	271.2	271.0	270.9	270.4	270.3	270.1	269.8	269.6	269.3	269.2	268.7
177.5°	272.9	272.7	272.7	272.4	272.3	272.3	272.0	271.9	271.8	271.6	271.5
180°	270.9	270.9	270.9	270.9	270.9	270.9	270.9	270.9	270.9	270.9	270.9



TEST NUMBER: P1444474
 CATALOG NUMBER: EHBR1-48-UNV-TA-L830-UPL12

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	92.5°	95°	97.5°	100°	102.5°	105°	107.5°
0°	38337.2	38337.2	38337.2	38337.2	38337.2	38337.2	38337.2	38337.2	38337.2	38337.2	38337.2
2.5°	38484.6	38474.8	38479.5	38461.5	38465.8	38444.0	38442.0	38417.4	38415.0	38391.9	38383.1
5°	39787.6	39766.2	39790.4	39752.7	39760.1	39711.1	39707.0	39643.6	39621.8	39542.4	39508.2
7.5°	41219.7	41211.6	41226.3	41194.9	41193.8	41150.1	41132.0	41075.2	41039.9	40956.8	40903.5
10°	41533.4	41540.8	41528.7	41531.7	41514.7	41510.0	41492.5	41481.4	41452.8	41431.3	41399.4
12.5°	40230.7	40238.5	40188.7	40220.3	40195.4	40253.6	40248.9	40317.4	40327.8	40414.5	40447.4
15°	37219.8	37210.5	37115.1	37175.2	37142.9	37270.5	37299.1	37470.7	37562.5	37782.9	37918.3
17.5°	32671.5	32646.9	32512.6	32585.8	32548.6	32736.7	32799.8	33074.3	33245.5	33600.6	33853.6
20°	27249.6	27202.6	27045.5	27131.1	27092.8	27306.5	27396.6	27728.3	27949.1	28419.4	28754.0
22.5°	21760.4	21686.1	21532.2	21612.2	21576.0	21797.4	21914.6	22247.5	22500.4	22983.2	23373.8
25°	16831.2	16764.9	16616.2	16672.2	16658.7	16846.0	16950.2	17265.1	17513.6	17973.5	18346.4
27.5°	12837.5	12768.7	12634.2	12673.9	12660.2	12819.8	12918.1	13181.1	13394.9	13782.1	14109.5
30°	9825.2	9742.1	9628.1	9650.1	9640.7	9770.0	9861.8	10083.3	10266.6	10593.8	10875.8
32.5°	7531.0	7447.5	7342.8	7353.1	7339.2	7440.7	7516.2	7708.9	7868.6	8146.8	8392.3
35°	5762.3	5859.9	5636.3	5777.9	5630.5	5846.9	5769.1	5889.5	6026.9	6261.2	6466.0
37.5°	4429.8	4361.8	4304.3	4298.1	4297.8	4348.0	4407.2	4523.2	4644.2	4818.9	4999.3
40°	3510.4	3462.6	3425.5	3422.7	3425.5	3461.1	3504.9	3585.0	3673.7	3799.1	3931.6
42.5°	2911.6	2879.8	2857.4	2855.8	2863.0	2888.2	2918.7	2966.3	3024.0	3105.2	3196.1
45°	2519.9	2502.3	2489.9	2489.1	2492.4	2505.6	2523.1	2552.8	2589.3	2640.0	2697.5
47.5°	2245.2	2240.9	2233.1	2233.4	2229.8	2235.3	2237.2	2253.8	2273.3	2311.5	2386.7
50°	2045.1	2045.1	2039.7	2039.4	2034.3	2034.1	2029.8	2036.3	2045.4	2069.1	2093.2
52.5°	1887.0	1886.4	1880.6	1879.5	1874.1	1873.8	1870.0	1872.7	1873.9	1885.9	1900.2
55°	1763.4	1759.7	1752.0	1749.6	1747.4	1750.6	1749.2	1749.3	1747.7	1752.8	1757.0
57.5°	1674.7	1669.9	1662.7	1660.5	1659.9	1663.6	1663.8	1662.5	1655.8	1651.3	1644.9
60°	1604.5	1599.7	1591.8	1589.9	1591.0	1596.2	1595.9	1591.6	1581.6	1573.0	1562.9
62.5°	1535.6	1533.7	1529.6	1529.1	1528.1	1529.0	1525.4	1520.8	1511.0	1501.8	1490.9
65°	1443.1	1444.1	1441.1	1441.6	1438.0	1437.5	1432.0	1427.6	1417.7	1409.3	1398.1
67.5°	1347.1	1347.8	1345.4	1345.4	1343.5	1343.8	1340.5	1336.4	1328.1	1321.2	1312.5
70°	1267.9	1269.9	1268.5	1269.0	1266.6	1265.8	1260.7	1256.7	1248.1	1242.4	1234.6
72.5°	1173.1	1177.4	1177.3	1178.3	1174.9	1173.1	1167.0	1162.1	1154.3	1149.7	1143.4
75°	1070.8	1076.4	1078.0	1080.4	1075.5	1073.0	1066.3	1062.3	1056.0	1053.2	1049.1
77.5°	971.0	977.1	982.9	988.3	980.5	973.5	965.2	958.8	949.6	946.2	939.7
80°	858.9	869.6	882.6	893.4	879.4	865.1	851.4	841.2	829.1	824.1	816.2
82.5°	712.6	723.6	731.0	737.9	728.2	717.8	704.4	695.5	682.4	677.6	668.3
85°	541.3	555.1	559.5	563.2	557.0	551.4	538.9	522.0	513.8	500.9	494.2
87.5°	356.0	364.3	365.9	367.1	363.3	360.6	352.5	344.5	330.5	320.3	307.7
90°	145.2	150.3	146.8	148.6	144.1	145.0	137.2	135.0	123.8	120.0	110.1
92.5°	19.5	18.2	17.4	16.4	18.0	18.3	19.8	20.1	21.5	21.9	23.3
95°	25.2	24.1	23.0	22.0	22.9	23.7	24.5	25.4	26.1	27.0	27.8
97.5°	33.3	32.6	31.8	31.2	31.7	32.1	32.7	33.2	33.6	34.1	34.8
100°	41.8	41.2	40.7	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1
102.5°	64.9	62.6	60.1	57.8	59.4	61.0	62.6	64.2	65.9	67.4	69.2
105°	118.8	112.3	105.8	99.3	105.6	111.8	118.2	124.5	130.8	137.3	143.7
107.5°	212.0	201.7	191.5	181.2	192.8	204.3	215.7	227.2	238.7	250.1	261.8
110°	314.6	304.9	295.1	285.3	297.5	309.7	321.9	334.0	346.2	358.4	370.8



TEST NUMBER: P1444474
 CATALOG NUMBER: EHBR1-48-UNV-TA-L830-UPL12

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	92.5°	95°	97.5°	100°	102.5°	105°	107.5°
112.5°	383.5	378.8	374.0	369.3	377.1	384.9	392.8	400.9	408.7	416.7	424.6
115°	402.3	402.0	401.8	401.5	405.2	408.9	412.6	416.5	420.3	424.0	428.0
117.5°	381.9	384.3	387.0	389.7	390.9	392.0	393.4	394.6	396.0	397.4	398.9
120°	344.7	347.9	351.5	355.0	354.5	354.1	353.6	353.1	353.1	352.8	352.9
122.5°	301.2	304.5	308.1	311.5	310.5	309.5	308.5	307.6	307.0	306.2	305.6
125°	261.5	264.2	267.0	269.9	268.8	267.8	266.8	266.2	265.5	264.7	264.2
127.5°	231.0	232.6	234.0	235.8	235.3	234.8	234.7	234.4	234.4	234.5	234.6
130°	211.7	212.2	212.9	213.4	213.6	213.7	214.3	214.7	215.4	215.9	216.9
132.5°	202.7	202.2	202.2	202.1	202.7	203.3	204.2	205.0	206.4	207.3	209.1
135°	199.9	199.2	198.8	198.4	199.2	199.9	201.1	202.2	203.6	205.2	206.9
137.5°	201.8	200.9	200.3	199.5	200.4	201.2	202.3	203.5	205.0	206.5	208.3
140°	206.3	205.3	205.0	204.2	205.0	205.7	206.8	207.9	209.4	210.9	212.6
142.5°	211.0	210.1	209.6	209.3	209.7	210.5	211.7	212.6	213.9	215.2	216.8
145°	217.8	217.0	216.8	216.2	216.6	217.1	217.9	218.7	219.7	220.5	221.9
147.5°	223.1	222.6	222.3	221.8	222.2	222.6	223.0	223.5	224.3	225.1	226.0
150°	227.8	227.2	226.8	226.6	226.8	226.9	227.3	227.4	228.0	228.5	229.3
152.5°	230.6	229.9	229.9	229.5	229.5	229.6	229.9	230.1	230.4	230.7	231.5
155°	233.8	233.3	232.9	232.5	232.4	232.2	232.4	232.2	232.5	232.5	232.8
157.5°	237.6	237.1	236.8	236.2	236.1	235.6	235.6	235.4	235.4	235.0	235.1
160°	241.0	240.4	239.8	239.2	239.0	238.7	238.7	238.3	238.2	238.1	238.1
162.5°	245.3	244.8	244.4	243.8	243.5	242.9	242.6	242.0	241.8	241.5	241.4
165°	249.4	248.9	248.4	247.6	247.4	247.1	246.6	246.4	246.2	245.8	245.6
167.5°	255.2	254.4	253.9	253.3	252.9	252.3	252.1	251.6	251.2	250.9	250.9
170°	259.4	258.8	258.4	258.0	257.7	257.2	257.1	256.7	256.6	256.4	256.4
172.5°	264.6	264.2	263.9	263.5	263.2	262.9	262.7	262.7	262.4	262.4	262.2
175°	268.6	268.3	268.2	267.9	267.6	267.5	267.4	267.3	267.2	267.0	267.0
177.5°	271.1	271.0	270.9	270.8	270.6	270.6	270.6	270.6	270.6	270.5	270.3
180°	270.9	270.9	270.9	270.9	270.9	270.9	270.9	270.9	270.9	270.9	270.9



TEST NUMBER: P1444474
 CATALOG NUMBER: EHBR1-48-UNV-TA-L830-UPL12

CANDELA DISTRIBUTION (continued):

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°
0°	38337.2	38337.2	38337.2	38337.2	38337.2	38337.2	38337.2	38337.2	38337.2	38337.2	38337.2
2.5°	38358.3	38348.2	38321.7	38308.6	38284.0	38271.7	38252.5	38240.1	38224.7	38213.1	38207.1
5°	39421.1	39372.0	39273.8	39213.3	39107.1	39037.2	38931.8	38854.5	38745.7	38665.4	38562.5
7.5°	40803.8	40728.6	40602.7	40507.1	40358.7	40245.1	40078.5	39945.2	39761.1	39608.2	39420.1
10°	41366.7	41322.8	41266.3	41204.9	41122.6	41042.0	40928.2	40812.2	40657.7	40503.9	40303.0
12.5°	40534.8	40576.1	40657.7	40695.7	40758.1	40779.2	40807.8	40794.4	40769.1	40706.4	40615.3
15°	38178.3	38350.9	38623.7	38812.4	39076.8	39262.5	39508.2	39666.3	39848.4	39957.3	40060.7
17.5°	34302.0	34635.9	35117.3	35501.4	36016.9	36436.1	36949.7	37353.2	37819.2	38176.6	38557.1
20°	29337.1	29804.7	30469.2	31033.5	31780.7	32414.2	33225.7	33905.6	34698.7	35359.8	36073.3
22.5°	23993.5	24543.6	25304.9	25985.7	26877.8	27674.6	28691.5	29590.4	30662.6	31623.1	32685.5
25°	18952.4	19491.5	20267.2	20972.0	21935.0	22812.8	23923.7	24955.0	26199.2	27359.5	28691.5
27.5°	14629.5	15108.3	15790.1	16424.5	17306.6	18168.3	19295.7	20395.4	21723.0	22970.0	24405.4
30°	11298.1	11686.6	12232.9	12743.2	13451.3	14156.1	15160.3	16177.3	17498.4	18790.5	20262.1
32.5°	8755.7	9086.8	9542.9	9957.2	10502.8	11034.2	11773.8	12586.5	13745.3	14982.9	16405.9
35°	6777.8	7061.2	7449.4	7806.3	8254.9	8676.8	9228.6	9808.7	10693.1	11734.2	13007.6
37.5°	5403.7	5519.2	5796.3	6088.6	6461.3	6808.0	7239.6	7668.6	8301.3	9122.7	10163.0
40°	4109.4	4292.8	4518.3	4748.6	5030.9	5308.9	5782.5	6010.5	6427.0	7016.7	7824.1
42.5°	3315.8	3444.7	3603.5	3763.6	3960.2	4153.9	4393.4	4637.5	4948.8	5348.2	5922.5
45°	2774.7	2858.8	2961.1	3067.8	3197.0	3329.2	3489.5	3657.0	3868.0	4113.6	4462.4
47.5°	2413.2	2459.7	2526.5	2599.4	2687.9	2779.4	2883.7	2990.4	3121.6	3267.1	3465.8
50°	2131.1	2169.9	2221.8	2270.5	2331.6	2425.3	2466.7	2525.6	2604.5	2690.2	2801.3
52.5°	1926.9	1952.8	1985.4	2013.3	2052.0	2087.1	2133.1	2173.7	2228.2	2279.7	2351.4
55°	1767.9	1777.3	1795.8	1813.8	1840.5	1864.5	1896.1	1922.7	1957.4	1988.3	2033.5
57.5°	1645.1	1646.0	1654.5	1663.9	1681.1	1696.2	1717.9	1735.3	1759.5	1779.2	1806.3
60°	1556.9	1552.2	1553.9	1557.2	1566.9	1576.7	1590.6	1602.0	1617.1	1628.3	1643.5
62.5°	1483.5	1476.1	1474.4	1473.5	1478.4	1481.9	1489.5	1495.0	1503.7	1508.5	1516.6
65°	1390.7	1382.0	1378.6	1374.6	1376.0	1374.9	1377.8	1377.9	1382.3	1383.3	1388.0
67.5°	1306.6	1299.3	1294.9	1289.6	1287.1	1283.3	1281.6	1277.9	1277.3	1274.2	1273.5
70°	1229.9	1222.8	1219.0	1214.1	1211.5	1206.4	1203.3	1197.0	1193.4	1187.6	1184.3
72.5°	1141.1	1137.1	1135.9	1132.6	1131.6	1128.8	1127.5	1123.1	1120.6	1115.6	1112.8
75°	1048.3	1045.0	1044.7	1041.3	1041.1	1037.6	1036.7	1032.1	1029.6	1024.7	1022.6
77.5°	937.7	932.9	931.5	927.5	928.5	926.8	928.2	924.6	923.1	918.2	916.6
80°	813.3	807.1	804.4	799.2	800.6	798.3	800.6	800.3	802.2	798.3	797.5
82.5°	665.8	659.0	657.7	654.0	656.4	656.7	662.0	659.2	660.3	656.5	658.1
85°	484.5	479.4	472.3	471.3	466.8	471.4	465.4	469.5	462.7	467.4	461.2
87.5°	300.4	289.8	284.3	276.8	273.9	266.7	263.7	258.4	260.0	257.6	259.0
90°	108.1	99.4	97.7	90.6	90.1	84.0	84.9	80.7	82.3	77.9	80.0
92.5°	23.7	24.6	26.2	28.3	29.7	31.4	33.0	35.0	36.4	38.4	39.8
95°	28.7	29.5	31.8	34.0	36.3	38.5	40.7	43.0	45.2	47.5	49.7
97.5°	35.3	35.8	38.0	40.3	42.5	44.8	46.9	49.5	51.7	54.0	56.2
100°	40.1	40.2	46.6	52.9	59.3	65.9	72.1	78.5	85.1	91.5	97.9
102.5°	70.8	72.4	88.5	104.6	120.7	136.9	153.1	169.4	185.5	201.8	218.0
105°	150.0	156.3	180.9	205.6	230.1	254.8	279.4	304.2	328.9	353.6	378.2
107.5°	273.3	284.9	307.2	329.4	351.6	374.0	396.5	418.8	441.1	463.5	486.2
110°	383.0	395.4	410.3	425.4	440.4	455.4	470.6	485.7	501.0	516.0	531.4



TEST NUMBER: P1444474
 CATALOG NUMBER: EHBR1-48-UNV-TA-L830-UPL12

CANDELA DISTRIBUTION (continued):

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°
112.5°	432.5	440.6	449.4	458.5	467.3	476.3	485.2	494.3	503.4	512.6	521.6
115°	431.9	435.9	439.4	443.3	446.8	450.7	454.3	458.3	462.4	466.2	470.1
117.5°	400.2	401.9	402.6	403.6	404.5	405.8	406.7	408.0	409.2	410.6	411.5
120°	352.7	352.6	352.5	352.5	352.4	352.5	352.7	352.8	353.1	353.3	353.5
122.5°	304.9	304.6	304.5	304.6	304.8	305.1	305.4	305.9	306.3	306.7	307.0
125°	263.8	263.6	264.8	266.0	267.3	268.7	270.0	271.7	273.1	274.6	276.2
127.5°	234.6	235.2	237.3	239.4	241.7	243.9	246.3	248.7	250.9	253.6	255.7
130°	217.9	219.1	221.5	224.3	226.9	229.7	232.4	235.4	237.9	240.7	243.5
132.5°	210.3	212.2	214.4	217.2	219.8	222.5	225.4	228.1	230.8	233.7	236.1
135°	208.7	210.8	213.1	215.6	218.2	220.9	223.3	226.1	228.5	231.1	233.5
137.5°	210.0	212.0	214.2	216.3	218.3	220.9	223.0	225.4	227.4	229.7	231.7
140°	214.3	216.3	217.7	219.6	221.1	222.8	224.2	226.1	227.4	229.4	230.7
142.5°	218.3	220.1	221.1	222.4	223.7	225.3	226.5	227.8	228.9	230.1	231.1
145°	223.0	224.5	225.2	226.0	226.8	227.5	228.2	229.0	229.5	230.1	230.7
147.5°	227.1	228.1	228.4	229.0	229.5	229.9	230.3	230.9	231.0	231.6	231.9
150°	229.9	230.7	230.7	231.1	231.1	231.4	231.4	231.7	231.7	232.0	232.0
152.5°	231.8	232.5	232.2	232.5	232.3	232.3	232.2	232.3	232.2	232.2	232.3
155°	232.8	233.1	232.9	233.0	232.8	232.8	232.6	233.0	232.9	233.0	233.1
157.5°	234.9	234.9	234.8	234.8	234.6	234.6	234.6	234.6	234.7	235.2	235.4
160°	237.8	237.8	237.5	237.5	237.5	237.4	237.4	237.5	237.6	238.2	238.4
162.5°	240.9	240.8	240.5	240.5	240.5	240.5	240.6	241.0	241.0	241.5	241.8
165°	245.6	245.7	245.3	245.4	245.3	245.2	245.3	245.4	245.8	246.0	246.4
167.5°	250.6	250.5	250.5	250.7	250.7	250.8	250.9	251.5	251.6	252.2	252.3
170°	256.3	256.4	256.2	256.2	256.2	256.3	256.3	256.4	256.7	256.8	256.8
172.5°	262.2	262.2	262.1	261.9	261.8	261.8	261.7	261.8	261.7	261.6	261.5
175°	266.8	266.7	266.6	266.6	266.5	266.2	266.2	265.8	265.7	265.7	265.7
177.5°	270.2	270.0	269.8	269.8	269.7	269.5	269.5	269.4	269.4	269.4	269.1
180°	270.9	270.9	270.9	270.9	270.9	270.9	270.9	270.9	270.9	270.9	270.9



TEST NUMBER: P1444474
 CATALOG NUMBER: EHBR1-48-UNV-TA-L830-UPL12

CANDELA DISTRIBUTION (continued):

	137.5°	140°	142.5°	145°	147.5°	150°	152.5°	155°	157.5°	160°	162.5°
0°	38337.2	38337.2	38337.2	38337.2	38337.2	38337.2	38337.2	38337.2	38337.2	38337.2	38337.2
2.5°	38199.5	38199.1	38195.3	38197.0	38197.8	38200.5	38203.8	38207.1	38207.9	38210.5	38211.1
5°	38485.3	38390.8	38320.9	38244.0	38186.2	38134.3	38099.6	38072.1	38061.4	38064.1	38070.5
7.5°	39260.6	39065.4	38904.5	38721.5	38568.9	38407.3	38273.4	38146.1	38053.2	37984.1	37945.4
10°	40111.2	39873.6	39646.3	39381.5	39130.3	38862.2	38619.3	38374.8	38170.9	37993.8	37863.8
12.5°	40488.7	40320.7	40124.3	39874.3	39605.5	39296.2	38983.8	38648.9	38337.4	38048.3	37815.1
15°	40089.0	40089.3	40017.7	39897.8	39711.1	39463.8	39166.2	38817.1	38449.7	38074.7	37732.1
17.5°	38820.2	39059.6	39192.7	39277.0	39251.2	39160.1	38970.6	38702.6	38360.0	37960.6	37542.6
20°	36641.4	37206.0	37608.6	37970.6	38173.5	38308.3	38294.8	38185.7	37941.8	37602.1	37166.8
22.5°	33589.2	34536.8	35284.7	35982.0	36471.0	36868.9	37058.0	37138.3	37027.7	36791.1	36382.3
25°	29881.9	31170.5	32270.1	33337.3	34137.8	34825.7	35239.2	35530.5	35553.6	35430.0	35065.3
27.5°	25762.6	27283.6	28675.3	30093.6	31219.3	32208.3	32857.2	33332.1	33483.0	33463.2	33132.0
30°	21648.5	23245.2	24779.2	26433.1	27826.1	29089.6	29946.8	30589.2	30836.6	30884.1	30565.6
32.5°	17763.1	19337.6	20867.4	22596.4	24129.3	25577.5	26590.3	27353.2	27641.1	27708.9	27359.5
35°	14236.9	15689.6	17143.4	18819.0	20343.2	21842.7	22909.8	23708.7	23977.5	24022.8	23618.3
37.5°	11179.1	12416.7	13683.5	15187.0	16586.7	17995.0	19008.9	19759.6	19955.5	19943.4	19485.5
40°	8604.3	9566.5	10584.4	11822.2	12985.9	14176.3	15032.6	15653.2	15756.0	15679.9	15198.9
42.5°	6470.0	7164.9	7902.9	8826.9	9690.3	10581.3	11204.2	11664.9	11679.5	11559.1	11127.4
45°	4820.1	5498.1	5807.6	6366.2	6922.4	7514.8	7895.2	8179.8	8135.8	8029.7	7701.7
47.5°	3674.5	3935.1	4211.4	4557.8	4881.8	5554.1	5504.3	5961.3	5632.1	5856.6	5362.5
50°	2917.9	3063.6	3212.4	3396.3	3565.6	3741.3	3851.1	3933.1	3922.5	3887.2	3792.6
52.5°	2482.5	2527.5	2600.8	2705.4	2799.8	2894.9	2957.5	3008.3	3009.3	2995.1	2947.2
55°	2074.8	2131.9	2184.7	2253.0	2369.4	2387.3	2476.9	2458.8	2465.8	2441.0	2466.4
57.5°	1829.3	1862.6	1892.2	1932.9	1966.5	2005.8	2028.9	2051.2	2049.1	2044.3	2019.8
60°	1655.4	1673.7	1690.2	1713.9	1732.4	1754.5	1765.2	1776.6	1772.9	1764.7	1742.9
62.5°	1521.3	1532.7	1542.2	1557.5	1568.7	1582.5	1588.1	1592.9	1588.1	1580.2	1561.0
65°	1389.0	1396.4	1402.3	1413.9	1421.8	1433.6	1438.3	1442.8	1438.4	1432.3	1417.7
67.5°	1269.6	1270.4	1269.8	1274.5	1276.9	1284.0	1286.1	1289.4	1284.3	1279.0	1266.6
70°	1179.1	1177.3	1175.0	1176.9	1177.3	1180.7	1181.3	1180.7	1174.6	1165.5	1152.0
72.5°	1108.4	1107.4	1105.7	1107.3	1107.3	1110.4	1109.3	1107.8	1100.3	1091.5	1078.2
75°	1017.5	1016.7	1013.3	1013.4	1010.6	1011.6	1007.9	1005.8	997.4	990.0	978.1
77.5°	911.0	909.4	904.4	902.5	897.1	894.8	887.9	884.4	875.9	869.9	859.7
80°	792.3	790.4	784.0	780.5	771.9	766.5	756.3	750.5	740.7	734.8	724.9
82.5°	654.9	655.6	649.1	644.7	632.6	623.2	609.5	602.1	591.3	585.6	575.4
85°	465.7	459.1	462.6	462.4	454.7	446.5	435.5	427.7	418.6	413.2	406.0
87.5°	255.4	257.0	255.2	253.7	248.2	244.1	235.4	230.9	224.2	221.0	215.5
90°	73.3	73.0	66.6	66.4	60.2	57.8	50.5	49.0	42.4	41.3	36.6
92.5°	37.9	36.1	34.4	32.2	30.6	28.8	26.8	24.9	23.0	22.1	21.8
95°	47.0	44.5	41.8	39.1	36.3	33.5	30.9	28.2	25.5	24.9	24.4
97.5°	53.1	49.8	46.6	43.7	40.4	37.2	34.1	30.8	27.6	27.3	26.9
100°	90.6	83.4	76.0	68.6	61.2	53.8	46.6	39.2	31.9	31.6	31.1
102.5°	200.0	182.2	164.4	146.6	128.9	110.9	93.1	75.1	57.3	54.7	52.2
105°	351.3	324.1	297.4	270.3	243.3	216.2	189.3	162.1	135.1	126.5	117.7
107.5°	460.9	435.4	410.3	385.0	359.5	334.3	308.9	283.4	258.1	242.8	227.6
110°	511.3	491.3	471.5	451.5	431.4	411.4	391.4	371.3	351.3	338.2	325.3



TEST NUMBER: P1444474
 CATALOG NUMBER: EHBR1-48-UNV-TA-L830-UPL12

CANDELA DISTRIBUTION (continued):

	137.5°	140°	142.5°	145°	147.5°	150°	152.5°	155°	157.5°	160°	162.5°
112.5°	507.1	492.7	478.5	463.8	449.4	434.7	420.3	405.7	391.0	383.2	375.4
115°	461.8	453.3	444.8	436.3	427.9	419.4	410.8	402.0	393.3	389.5	385.5
117.5°	407.7	403.6	399.8	395.8	391.7	387.5	383.5	379.3	375.1	374.0	372.9
120°	353.2	352.5	351.5	350.8	350.0	349.3	348.4	347.4	346.4	347.1	347.9
122.5°	308.5	309.7	311.1	312.1	313.5	314.5	316.0	316.8	317.9	319.7	321.4
125°	278.4	280.5	282.7	284.8	286.7	288.8	291.0	292.8	295.0	296.6	298.5
127.5°	258.3	260.5	263.0	265.2	267.6	269.9	272.2	274.2	276.5	278.3	280.3
130°	245.8	247.9	250.2	252.3	254.4	256.6	258.6	260.9	262.9	264.6	266.4
132.5°	238.2	240.4	242.5	244.3	246.5	248.4	250.6	252.5	254.8	256.2	257.9
135°	235.5	237.0	238.9	240.5	242.4	243.9	245.8	247.7	249.6	250.9	252.5
137.5°	233.3	234.7	236.5	237.8	239.6	241.0	242.9	244.4	246.4	247.4	249.0
140°	232.2	233.6	235.2	236.7	238.3	239.7	241.8	243.4	245.2	246.4	247.8
142.5°	232.5	233.5	234.8	236.1	237.5	238.8	240.4	242.0	243.6	244.9	246.2
145°	232.0	233.2	234.6	235.9	237.2	238.6	240.5	242.0	243.8	244.9	246.2
147.5°	233.0	233.9	235.2	236.3	237.6	238.8	240.5	241.9	243.5	244.7	245.7
150°	233.1	234.1	235.2	236.2	237.5	238.9	240.5	241.9	243.8	244.9	245.9
152.5°	233.3	234.3	235.4	236.7	238.0	239.4	240.9	242.5	244.2	245.1	246.3
155°	234.2	235.0	236.3	237.5	239.0	240.1	241.7	243.1	244.7	245.8	246.7
157.5°	236.4	237.2	238.4	239.6	240.7	242.0	243.5	244.7	246.2	247.0	247.9
160°	239.3	240.2	241.3	242.5	243.5	244.8	246.0	247.1	248.3	249.3	250.1
162.5°	242.7	243.8	244.9	245.8	247.0	248.1	249.4	250.5	251.7	252.3	253.2
165°	247.2	248.0	249.0	249.7	250.7	251.3	252.4	253.3	254.4	255.0	255.9
167.5°	253.3	253.8	254.4	255.1	255.9	256.6	257.5	258.2	259.1	259.7	260.4
170°	257.5	258.1	258.5	259.1	259.8	260.4	261.1	261.6	262.6	263.0	263.6
172.5°	261.9	262.1	262.7	262.9	263.3	263.7	264.2	264.7	265.1	265.7	266.0
175°	266.0	266.0	266.3	266.4	266.5	266.8	267.1	267.4	267.6	268.0	268.2
177.5°	269.2	269.3	269.3	269.4	269.8	269.9	270.0	270.1	270.3	270.5	270.8
180°	270.9	270.9	270.9	270.9	270.9	270.9	270.9	270.9	270.9	270.9	270.9



TEST NUMBER: P1444474
 CATALOG NUMBER: EHBR1-48-UNV-TA-L830-UPL12

CANDELA DISTRIBUTION (continued):

	165°	167.5°	170°	172.5°	175°	177.5°	180°	182.5°	185°	187.5°	190°
0°	38337.2	38337.2	38337.2	38337.2	38337.2	38337.2	38337.2	38337.2	38337.2	38337.2	38337.2
2.5°	38209.9	38209.4	38208.2	38206.4	38204.7	38205.7	38207.4	38211.8	38219.5	38230.6	38245.1
5°	38075.7	38083.5	38087.9	38088.5	38084.5	38082.1	38085.8	38096.3	38117.5	38153.0	38201.0
7.5°	37935.0	37944.7	37959.5	37970.6	37972.7	37970.0	37970.6	37987.0	38026.2	38095.3	38192.3
10°	37784.9	37756.3	37771.4	37798.9	37820.8	37824.8	37827.5	37847.0	37904.1	38008.6	38164.5
12.5°	37646.2	37555.8	37538.3	37563.2	37596.5	37607.1	37604.2	37612.5	37679.5	37817.8	38035.1
15°	37463.8	37293.7	37235.6	37242.0	37283.1	37297.8	37287.0	37270.5	37335.7	37504.7	37785.9
17.5°	37168.5	36894.3	36787.5	36782.8	36830.8	36843.6	36817.2	36766.0	36830.3	37041.0	37390.1
20°	36719.6	36314.9	36113.7	36081.7	36133.9	36118.7	36066.0	35988.6	36073.0	36329.4	36744.6
22.5°	35912.8	35399.9	35056.1	34945.3	35007.7	34966.1	34889.2	34790.5	34902.6	35193.8	35656.2
25°	34594.3	34001.7	33531.1	33267.1	33316.9	33242.2	33158.6	33038.9	33172.6	33506.9	34015.8
27.5°	32656.3	31971.7	31388.6	30951.6	30967.6	30869.9	30773.5	30618.7	30785.6	31181.4	31755.4
30°	30079.2	29287.0	28576.9	27983.1	27929.9	27835.1	27736.4	27533.2	27742.1	28215.8	28886.6
32.5°	26842.9	25963.3	25142.9	24391.9	24250.3	24157.8	24069.9	23836.0	24109.5	24661.8	25432.4
35°	23058.0	22121.2	21231.6	20374.0	20139.2	20046.8	19969.9	19745.8	20087.2	20688.2	21520.4
37.5°	18903.7	17946.7	17063.5	16184.0	15852.4	15726.9	15671.0	15524.3	15918.1	16512.5	17348.2
40°	14638.9	13749.0	12957.2	12180.4	11802.3	11610.4	11581.1	11554.4	11935.1	12450.8	13209.4
42.5°	10649.2	9931.3	9320.7	8726.9	8384.4	8122.3	8122.1	8201.7	8544.4	8930.7	9515.7
45°	7366.4	6884.6	6495.6	6098.9	6204.9	5682.3	5989.3	5831.8	6001.1	6250.2	6630.6
47.5°	5063.7	4800.6	4587.0	4365.3	4203.8	4049.5	4063.0	4162.5	4322.0	4469.8	4667.7
50°	3690.5	3556.6	3447.7	3332.7	3252.3	3184.2	3188.2	3231.3	3315.0	3392.9	3496.5
52.5°	2891.8	2817.9	2758.8	2695.2	2652.9	2619.1	2621.0	2641.9	2687.2	2731.6	2791.0
55°	2383.5	2374.7	2297.7	2240.6	2218.9	2196.2	2200.3	2208.5	2239.4	2265.3	2304.7
57.5°	1997.3	1962.9	1939.8	1909.8	1895.9	1880.1	1883.6	1886.7	1907.3	1924.7	1953.0
60°	1724.8	1700.3	1683.9	1663.5	1654.4	1644.3	1646.5	1648.4	1661.6	1673.1	1693.3
62.5°	1543.6	1521.7	1507.4	1491.7	1485.3	1478.5	1480.1	1480.7	1488.9	1497.2	1512.6
65°	1404.6	1387.3	1375.5	1361.9	1355.1	1348.1	1348.8	1348.8	1355.8	1361.9	1373.4
67.5°	1257.7	1244.6	1236.9	1226.2	1221.7	1214.3	1214.3	1211.9	1216.5	1218.9	1226.7
70°	1139.8	1126.6	1116.7	1106.3	1100.7	1094.4	1094.5	1094.6	1099.9	1105.4	1115.5
72.5°	1066.9	1054.3	1045.6	1036.5	1031.1	1025.7	1024.7	1024.1	1027.9	1030.9	1037.6
75°	970.4	960.3	955.3	946.7	942.4	936.3	935.3	932.5	934.4	934.9	939.9
77.5°	853.3	843.8	839.7	831.0	827.5	820.6	820.0	816.8	818.2	817.3	821.1
80°	720.0	711.2	709.0	701.9	700.2	693.8	692.8	688.9	690.1	687.1	688.6
82.5°	571.0	563.1	561.4	554.8	554.8	549.0	548.7	542.9	542.9	538.0	530.0
85°	402.2	396.4	394.0	388.6	387.0	382.4	379.9	374.4	372.4	368.9	367.8
87.5°	212.3	208.6	205.3	202.8	198.0	189.7	188.9	183.1	183.6	179.5	179.8
90°	36.1	31.8	31.5	27.5	26.9	24.3	23.9	23.4	23.6	23.3	23.6
92.5°	21.2	20.5	20.0	19.3	18.6	18.1	17.4	18.1	18.6	19.3	20.0
95°	23.8	23.2	22.8	22.2	21.6	21.1	20.5	21.1	21.6	22.4	22.9
97.5°	26.6	26.2	25.9	25.5	25.2	24.8	24.4	25.0	25.4	25.7	26.0
100°	30.7	30.3	29.9	29.4	29.0	28.6	28.2	28.9	29.3	29.7	30.2
102.5°	49.6	47.0	44.5	41.9	39.2	36.7	34.1	36.7	39.2	42.1	44.7
105°	108.9	100.4	91.7	83.0	74.2	65.5	56.8	65.6	74.3	83.1	92.0
107.5°	212.2	197.1	181.7	166.5	150.9	135.6	120.3	135.8	151.2	166.6	182.0
110°	312.1	298.9	285.8	272.6	259.4	246.3	233.0	246.4	259.7	272.9	286.2



TEST NUMBER: P1444474
 CATALOG NUMBER: EHBR1-48-UNV-TA-L830-UPL12

CANDELA DISTRIBUTION (continued):

	165°	167.5°	170°	172.5°	175°	177.5°	180°	182.5°	185°	187.5°	190°
112.5°	367.5	359.6	351.6	343.9	335.7	327.9	319.8	328.2	336.3	344.5	352.6
115°	381.6	377.6	373.7	369.7	365.4	361.4	357.1	361.9	366.2	370.6	374.9
117.5°	371.7	370.7	369.4	368.3	367.0	365.8	364.4	366.1	367.7	369.5	370.8
120°	348.3	349.1	349.7	350.1	350.7	351.1	351.4	351.6	351.6	351.6	351.5
122.5°	323.1	324.9	326.3	327.9	329.4	330.8	332.1	331.4	330.6	329.7	328.5
125°	300.2	302.3	303.9	305.6	307.1	308.8	310.0	309.6	308.7	307.8	306.6
127.5°	282.1	283.8	285.5	287.4	288.8	290.2	291.4	291.0	290.3	289.4	288.4
130°	268.0	269.9	271.2	272.8	274.1	275.2	276.1	276.0	275.6	275.3	274.5
132.5°	259.3	261.1	262.5	263.9	264.8	266.1	266.7	267.0	266.7	266.6	265.8
135°	253.9	255.3	256.6	258.1	258.9	259.8	260.4	260.9	260.8	260.8	260.2
137.5°	250.1	251.5	252.4	253.6	254.3	255.1	255.4	256.1	256.2	256.7	256.3
140°	249.0	250.4	251.5	252.4	253.5	254.3	254.7	255.3	255.5	255.6	255.3
142.5°	247.5	248.7	249.9	251.0	251.8	252.5	253.0	253.6	253.8	253.8	253.8
145°	247.3	248.3	249.4	250.6	251.1	251.8	252.0	252.8	253.0	253.3	253.3
147.5°	246.7	248.0	248.7	249.6	250.3	250.9	251.3	251.8	252.2	252.3	252.4
150°	247.1	248.2	249.1	250.0	250.9	251.5	251.7	252.3	252.5	252.7	252.6
152.5°	247.3	248.2	249.1	249.8	250.7	251.2	251.5	252.1	252.5	252.8	252.9
155°	247.7	248.6	249.4	250.3	250.9	251.6	252.2	252.7	253.2	253.5	253.8
157.5°	248.7	249.7	250.4	251.2	251.8	252.7	253.3	253.9	254.4	255.0	255.3
160°	250.8	251.8	252.3	253.2	253.9	254.6	255.2	255.9	256.5	256.8	257.5
162.5°	253.9	254.8	255.3	256.1	256.8	257.5	258.1	258.7	259.4	259.9	260.3
165°	256.7	257.4	258.1	258.9	259.6	260.4	261.0	261.5	261.9	262.5	262.7
167.5°	261.0	261.7	262.3	263.0	263.5	264.3	265.0	265.5	265.7	266.2	266.5
170°	264.2	264.8	265.4	265.8	266.6	267.1	267.5	267.8	268.3	268.6	268.9
172.5°	266.5	267.1	267.6	268.3	268.7	269.3	269.8	270.1	270.3	270.4	270.5
175°	268.6	269.1	269.4	269.8	270.1	270.5	271.0	270.9	271.3	271.2	271.4
177.5°	271.3	271.7	272.0	272.2	272.7	272.9	273.1	273.0	273.0	272.8	272.6
180°	270.9	270.9	270.9	270.9	270.9	270.9	270.9	270.9	270.9	270.9	270.9



TEST NUMBER: P1444474
 CATALOG NUMBER: EHBR1-48-UNV-TA-L830-UPL12

CANDELA DISTRIBUTION (continued):

	192.5°	195°	197.5°	200°	202.5°	205°	207.5°	210°	212.5°	215°	217.5°
0°	38337.2	38337.2	38337.2	38337.2	38337.2	38337.2	38337.2	38337.2	38337.2	38337.2	38337.2
2.5°	38265.5	38284.7	38314.0	38340.5	38380.5	38412.0	38459.3	38495.3	38548.7	38583.4	38641.5
5°	38269.0	38343.8	38442.3	38538.4	38653.9	38758.7	38889.0	39000.0	39130.9	39237.8	39371.7
7.5°	38323.1	38467.4	38640.5	38814.8	39012.1	39196.5	39404.3	39592.4	39798.0	39972.1	40162.1
10°	38363.0	38585.7	38840.7	39097.3	39367.3	39618.3	39871.7	40090.6	40295.2	40463.6	40612.3
12.5°	38308.9	38615.6	38942.8	39258.9	39559.2	39818.9	40036.9	40205.2	40321.5	40400.3	40418.8
15°	38124.9	38494.0	38849.8	39164.5	39413.7	39605.9	39705.4	39752.0	39702.0	39619.0	39436.6
17.5°	37781.2	38170.5	38488.6	38736.8	38868.5	38920.7	38838.3	38694.9	38414.7	38103.7	37654.6
20°	37151.0	37513.8	37744.5	37879.9	37844.7	37714.4	37403.3	37025.0	36465.6	35869.5	35082.7
22.5°	36045.8	36362.9	36485.8	36495.9	36280.9	35954.7	35393.5	34744.8	33862.3	32944.8	31816.5
25°	34386.7	34664.5	34683.9	34574.8	34181.3	33652.7	32828.6	31911.0	30711.8	29489.3	28075.4
27.5°	32136.7	32403.1	32337.9	32134.3	31588.1	30880.7	29825.6	28640.1	27161.7	25717.8	24153.8
30°	29308.2	29593.2	29516.5	29255.4	28605.8	27769.7	26528.2	25150.8	23509.4	21967.3	20382.4
32.5°	25923.4	26283.6	26230.8	25982.5	25304.6	24409.8	23062.8	21601.9	19922.6	18402.9	16861.1
35°	22076.2	22513.4	22536.1	22373.8	21744.5	20860.0	19529.9	18115.9	16507.3	15073.5	13649.3
37.5°	17931.1	18438.1	18542.2	18498.5	17976.9	17196.2	15984.2	14715.7	13290.8	12034.1	10816.0
40°	13763.2	14276.4	14454.4	14507.3	14122.4	13517.6	12523.0	11499.1	10337.4	9319.1	8352.0
42.5°	9962.2	10417.1	10589.2	10697.5	10457.2	10054.0	9328.4	8584.8	7733.8	6999.4	6295.2
45°	6919.0	7240.8	7371.6	7480.7	7349.8	7122.3	6664.0	6199.0	5637.2	5157.3	4702.9
47.5°	4837.4	5015.0	5101.3	5154.1	5103.5	4984.8	4735.4	4466.0	4149.0	3868.5	3598.8
50°	3585.6	3680.0	3725.3	3755.8	3718.8	3652.9	3518.0	3371.3	3197.2	3038.3	2883.0
52.5°	2841.5	2895.6	2922.5	2938.9	2917.8	2877.5	2798.9	2712.0	2607.5	2509.3	2457.7
55°	2393.8	2390.9	2453.1	2423.1	2453.1	2386.2	2372.0	2276.5	2189.7	2128.7	2062.6
57.5°	1974.1	2002.2	2014.1	2027.5	2018.9	2006.6	1973.3	1939.0	1893.3	1855.1	1814.2
60°	1708.8	1732.0	1745.1	1758.3	1757.5	1752.9	1733.6	1713.1	1684.5	1661.6	1636.9
62.5°	1526.1	1546.1	1559.1	1571.7	1572.8	1571.0	1556.3	1542.2	1522.7	1508.4	1491.3
65°	1382.3	1396.4	1405.2	1415.3	1414.7	1412.0	1398.8	1387.0	1371.0	1361.0	1348.5
67.5°	1231.9	1242.5	1249.3	1258.8	1260.7	1261.3	1254.0	1248.4	1240.7	1237.9	1233.6
70°	1124.9	1137.8	1148.8	1160.8	1167.3	1170.5	1167.3	1164.5	1159.9	1158.0	1154.7
72.5°	1043.9	1054.8	1063.4	1074.3	1080.4	1084.8	1082.4	1080.8	1076.8	1076.3	1074.0
75°	943.3	950.9	955.6	963.9	967.2	971.3	969.4	970.4	969.1	972.3	972.1
77.5°	822.3	828.0	830.2	836.1	836.8	841.7	842.9	848.7	852.8	861.9	866.7
80°	686.2	689.8	689.8	695.9	698.6	707.0	711.0	720.5	724.9	733.0	733.7
82.5°	533.1	529.0	533.1	530.6	538.3	547.7	549.0	557.1	558.9	564.1	560.1
85°	364.5	364.2	360.9	361.5	359.0	360.2	358.8	360.4	358.9	359.0	355.4
87.5°	174.6	176.2	172.4	173.7	169.9	171.6	168.3	170.9	167.1	167.7	162.0
90°	23.5	23.7	23.7	24.0	24.7	25.6	26.7	27.6	29.2	30.1	31.4
92.5°	20.5	21.4	22.0	22.6	23.2	25.1	27.0	28.9	30.9	32.7	34.6
95°	23.4	24.0	24.5	25.4	25.9	28.7	31.4	34.1	36.8	39.6	42.3
97.5°	26.7	27.1	27.4	27.7	28.2	31.4	34.7	37.8	41.0	44.3	47.4
100°	30.6	31.1	31.5	32.1	32.5	39.9	47.3	54.7	62.1	69.4	76.8
102.5°	47.3	49.9	52.5	55.4	58.0	76.0	94.0	111.8	129.5	147.5	165.4
105°	100.7	109.4	118.5	127.2	135.9	163.1	190.3	217.5	244.4	271.5	298.6
107.5°	197.5	212.8	228.5	243.8	259.2	284.8	310.1	335.6	361.2	386.7	411.9
110°	299.7	312.8	326.3	339.6	352.9	372.9	393.2	413.3	433.5	453.6	473.7



TEST NUMBER: P1444474
 CATALOG NUMBER: EHBR1-48-UNV-TA-L830-UPL12

CANDELA DISTRIBUTION (continued):

	192.5°	195°	197.5°	200°	202.5°	205°	207.5°	210°	212.5°	215°	217.5°
112.5°	360.7	368.8	376.9	384.7	392.9	407.6	422.5	437.1	452.0	466.3	481.0
115°	379.2	383.0	387.4	391.5	395.8	404.6	413.2	422.0	430.8	439.3	448.1
117.5°	372.4	373.8	375.3	376.4	377.8	382.2	386.5	390.7	395.1	399.4	403.6
120°	351.4	351.0	350.7	350.1	349.9	350.7	352.0	353.0	354.2	355.0	355.9
122.5°	327.6	326.1	324.9	323.4	322.0	320.9	320.1	318.9	318.2	317.1	316.0
125°	305.5	303.9	302.6	301.0	299.4	297.6	295.9	293.8	292.0	290.1	288.2
127.5°	287.6	286.1	284.9	283.3	281.8	279.5	277.5	275.4	273.4	271.2	269.1
130°	273.7	272.5	271.6	269.9	268.8	266.7	264.9	262.8	260.8	258.9	256.8
132.5°	265.3	264.3	263.4	262.0	261.1	259.1	257.5	255.3	253.6	251.6	249.9
135°	259.8	259.0	258.4	257.4	256.5	254.6	253.2	251.5	249.9	248.4	246.8
137.5°	256.2	255.4	255.0	254.2	253.5	251.9	250.7	249.1	247.9	246.3	245.0
140°	255.2	254.7	254.1	253.5	252.7	251.3	250.0	248.4	247.1	245.6	244.3
142.5°	253.4	253.0	252.5	251.9	251.3	249.9	249.1	247.9	246.6	245.5	244.4
145°	253.0	252.6	252.5	251.9	251.6	250.3	249.3	247.9	246.9	245.6	244.6
147.5°	252.5	252.2	252.1	251.8	251.7	250.5	249.8	248.7	248.0	246.8	246.2
150°	252.7	252.7	252.5	252.3	252.1	251.1	250.5	249.5	248.9	247.9	247.3
152.5°	253.0	253.1	253.1	253.1	253.2	252.4	251.8	250.9	250.2	249.4	248.7
155°	254.0	254.1	254.3	254.3	254.3	253.8	253.2	252.4	251.9	251.2	250.7
157.5°	255.5	255.8	256.1	256.3	256.4	255.9	255.4	254.9	254.4	253.8	253.4
160°	257.8	258.2	258.4	258.6	258.9	258.5	258.3	257.7	257.5	256.8	256.2
162.5°	260.8	261.2	261.4	261.6	261.9	261.5	261.3	261.0	260.5	259.8	259.4
165°	263.2	263.3	263.7	263.8	264.0	263.7	263.5	263.2	262.9	262.7	262.4
167.5°	266.9	266.9	267.3	267.4	267.6	267.4	267.6	267.2	267.1	266.9	266.7
170°	269.2	269.4	269.6	269.7	269.9	269.7	269.6	269.4	269.5	268.9	268.7
172.5°	270.7	270.8	270.9	271.1	271.0	270.9	270.9	270.8	270.7	270.6	270.4
175°	271.4	271.4	271.5	271.6	271.5	271.6	271.6	271.6	271.5	271.5	271.4
177.5°	272.7	272.7	272.4	272.3	272.3	272.2	272.2	272.2	272.4	272.3	272.2
180°	270.9	270.9	270.9	270.9	270.9	270.9	270.9	270.9	270.9	270.9	270.9



TEST NUMBER: P1444474
 CATALOG NUMBER: EHBR1-48-UNV-TA-L830-UPL12

CANDELA DISTRIBUTION (continued):

	220°	222.5°	225°	227.5°	230°	232.5°	235°	237.5°	240°	242.5°	245°
0°	38337.2	38337.2	38337.2	38337.2	38337.2	38337.2	38337.2	38337.2	38337.2	38337.2	38337.2
2.5°	38677.5	38438.6	38407.0	38423.8	38463.7	38478.5	38521.6	38533.4	38576.7	38587.3	38628.9
5°	39475.5	39159.8	39175.6	39251.5	39366.4	39434.9	39547.8	39607.0	39714.8	39763.8	39861.3
7.5°	40317.1	40069.1	40146.4	40274.5	40431.5	40540.4	40676.1	40764.4	40881.4	40954.0	41047.6
10°	40730.3	40662.3	40747.4	40848.2	40937.8	41008.0	41065.5	41111.6	41141.7	41169.9	41182.3
12.5°	40415.8	40520.9	40535.4	40525.7	40466.2	40421.0	40319.0	40249.8	40126.9	40052.1	39905.9
15°	39250.2	39481.3	39353.3	39159.5	38875.9	38639.5	38305.6	38057.0	37709.3	37473.4	37124.5
17.5°	37204.5	37496.3	37162.7	36714.3	36143.8	35655.7	35048.1	34565.7	33961.4	33522.0	32958.1
20°	34324.6	34597.2	34002.3	33259.0	32376.5	31633.9	30758.1	30059.3	29245.5	28640.1	27909.4
22.5°	30738.9	30933.1	30095.0	29092.9	27968.5	27040.7	25993.7	25155.9	24227.1	23535.0	22756.0
25°	26772.0	26824.3	25819.0	24664.5	23411.4	22368.7	21250.7	20370.0	19422.8	18721.3	17956.7
27.5°	22768.1	22691.2	21604.5	20380.3	19062.3	17978.5	16888.1	16062.8	15233.2	14601.3	13942.6
30°	18989.0	18802.8	17674.6	16416.3	15136.8	14165.5	13260.2	12597.4	11937.4	11436.2	10907.5
32.5°	15523.4	15260.9	14162.6	12983.7	11905.7	11156.0	10484.8	9983.3	9450.3	9026.9	8583.2
35°	12453.9	12174.1	11201.2	10201.8	9385.8	8833.3	8305.7	7894.2	7441.7	7084.5	6699.2
37.5°	9819.6	9590.2	8775.3	7988.8	7371.6	6943.4	6511.2	6174.9	5800.9	5643.8	5232.0
40°	7580.7	7420.4	6783.2	6203.4	5740.0	5538.8	5100.0	4785.9	4506.4	4276.0	4052.8
42.5°	5913.1	5856.3	5236.1	4784.1	4457.7	4204.2	3959.7	3761.2	3567.9	3409.2	3259.1
45°	4339.3	4294.4	4019.0	3758.1	3535.7	3358.6	3193.3	3056.8	2930.4	2825.8	2730.5
47.5°	3379.0	3364.7	3206.1	3044.2	2904.2	2790.4	2683.1	2592.4	2508.6	2438.7	2416.0
50°	2748.3	2746.4	2653.4	2553.5	2453.8	2388.0	2319.5	2265.9	2212.0	2170.2	2125.9
52.5°	2335.1	2325.0	2262.2	2200.6	2141.3	2098.1	2054.4	2020.1	1984.4	1958.6	1931.0
55°	2010.4	2020.9	1984.6	1947.8	1910.7	1883.9	1853.2	1830.6	1806.2	1789.8	1773.2
57.5°	1784.7	1798.8	1779.7	1758.9	1736.3	1718.6	1697.4	1681.9	1665.5	1655.1	1645.4
60°	1620.6	1636.0	1628.3	1617.8	1603.8	1593.3	1579.9	1571.1	1560.7	1554.8	1549.4
62.5°	1481.3	1500.5	1497.8	1492.8	1483.9	1478.0	1470.7	1466.9	1459.9	1457.3	1454.8
65°	1342.4	1363.9	1363.6	1361.1	1356.2	1354.5	1349.9	1349.0	1345.5	1346.9	1346.6
67.5°	1233.1	1251.9	1256.0	1259.0	1258.8	1260.0	1259.6	1261.4	1261.4	1264.1	1265.8
70°	1154.3	1167.3	1170.5	1173.6	1174.4	1177.0	1177.0	1178.6	1178.1	1180.4	1180.7
72.5°	1074.6	1091.7	1094.9	1097.4	1097.4	1099.9	1098.6	1098.2	1094.7	1094.1	1091.6
75°	975.4	997.4	1002.3	1005.4	1005.8	1007.9	1004.9	1003.1	997.4	995.2	991.1
77.5°	871.8	894.7	898.1	899.2	897.4	897.8	891.6	887.3	880.0	877.0	873.2
80°	737.0	770.6	773.3	771.2	765.9	765.1	759.0	755.0	746.4	743.4	740.1
82.5°	560.8	600.3	605.9	608.3	604.0	605.0	599.1	596.9	588.9	587.5	582.3
85°	354.1	393.6	400.1	399.1	394.8	393.9	390.4	391.5	390.9	393.0	394.2
87.5°	162.7	200.9	210.1	207.2	206.7	204.0	197.9	200.2	203.9	206.3	206.5
90°	32.4	45.1	45.9	46.1	42.5	42.2	38.9	39.2	36.5	36.7	34.2
92.5°	36.5	38.4	40.3	38.6	36.9	35.2	33.5	31.7	30.2	28.3	26.8
95°	45.1	47.5	50.2	48.0	45.5	43.3	41.0	38.9	36.6	34.4	32.1
97.5°	50.6	53.6	56.6	54.3	52.1	49.7	47.5	45.3	43.1	40.7	38.4
100°	84.2	91.0	98.3	91.9	85.4	79.1	72.7	66.2	59.9	53.5	47.0
102.5°	183.1	200.7	218.4	202.1	186.0	169.7	153.6	137.5	121.4	105.0	89.0
105°	325.5	352.1	379.0	354.0	329.3	304.6	280.0	255.3	230.7	205.9	181.3
107.5°	437.3	461.7	486.7	464.2	441.8	419.5	397.0	374.6	352.2	329.7	307.5
110°	493.6	512.5	532.2	516.9	501.8	486.4	471.4	456.0	440.9	425.9	410.8



TEST NUMBER: P1444474
 CATALOG NUMBER: EHBR1-48-UNV-TA-L830-UPL12

CANDELA DISTRIBUTION (continued):

	220°	222.5°	225°	227.5°	230°	232.5°	235°	237.5°	240°	242.5°	245°
112.5°	495.5	508.4	522.6	513.2	504.2	495.1	486.1	476.9	468.0	458.9	450.2
115°	456.6	463.2	471.3	467.1	463.3	459.4	455.3	451.6	447.7	443.8	440.3
117.5°	407.7	409.5	413.1	411.7	410.6	409.2	407.9	406.7	405.7	404.7	403.6
120°	356.9	355.2	355.4	354.9	354.8	354.4	354.3	353.9	353.8	353.6	353.6
122.5°	314.9	311.0	309.0	308.6	308.1	307.5	307.2	306.8	306.5	306.2	306.1
125°	286.3	281.1	278.2	276.7	275.3	273.7	272.1	270.6	269.3	267.9	266.6
127.5°	266.9	261.3	258.3	256.0	253.7	251.1	248.8	246.4	244.2	241.7	239.6
130°	255.0	249.3	246.3	243.5	240.9	237.9	235.4	232.7	229.9	227.2	224.5
132.5°	247.9	242.0	239.2	236.6	234.2	231.4	228.8	225.9	223.3	220.4	218.0
135°	245.1	239.4	236.9	234.3	232.1	229.5	227.0	224.4	222.1	219.3	217.2
137.5°	243.5	237.6	235.3	233.1	231.3	229.0	227.2	224.9	222.7	220.3	218.4
140°	242.8	236.7	234.5	233.1	231.7	230.1	228.7	227.2	225.7	224.2	222.6
142.5°	243.2	237.2	234.9	233.9	233.1	231.7	231.0	229.8	228.7	227.2	226.2
145°	243.5	236.9	234.7	234.0	233.7	233.1	232.6	231.9	231.5	230.7	230.1
147.5°	244.9	238.2	235.9	235.7	235.4	235.0	234.9	234.4	234.3	233.9	233.6
150°	246.2	238.4	235.9	235.9	235.7	235.7	235.7	235.5	235.7	235.5	235.5
152.5°	247.7	238.4	235.5	235.5	235.8	235.6	235.8	235.9	236.1	236.3	236.4
155°	249.6	239.6	236.3	236.1	236.1	236.1	236.1	236.2	236.3	236.5	236.7
157.5°	252.4	241.8	238.6	238.1	238.0	237.9	237.9	237.9	238.0	238.1	238.4
160°	255.7	244.9	241.7	241.2	241.0	240.8	240.6	240.5	240.5	240.6	240.8
162.5°	258.7	248.1	245.0	244.6	244.2	244.0	243.9	243.5	243.6	243.5	243.7
165°	261.8	252.4	249.4	249.0	248.9	248.5	248.4	248.2	248.3	248.2	248.4
167.5°	266.1	257.7	255.3	254.9	254.5	254.0	254.0	253.5	253.5	253.2	253.2
170°	268.4	261.7	259.7	259.5	259.6	259.3	259.1	259.1	259.0	258.7	258.8
172.5°	270.2	265.4	263.9	263.8	264.0	264.0	264.2	264.1	264.2	264.3	264.5
175°	271.3	268.5	267.8	267.6	267.6	267.7	267.8	267.8	267.9	268.0	268.3
177.5°	272.4	271.6	271.2	271.2	271.2	271.2	271.2	271.2	271.2	271.4	271.4
180°	270.9	270.9	270.9	270.9	270.9	270.9	270.9	270.9	270.9	270.9	270.9



TEST NUMBER: P1444474
 CATALOG NUMBER: EHBR1-48-UNV-TA-L830-UPL12

CANDELA DISTRIBUTION (continued):

	247.5°	250°	252.5°	255°	257.5°	260°	262.5°	265°	267.5°	270°	272.5°
0°	38337.2	38337.2	38337.2	38337.2	38337.2	38337.2	38337.2	38337.2	38337.2	38337.2	38337.2
2.5°	38636.8	38681.9	38678.4	38720.5	38718.4	38758.0	38750.1	38784.2	38776.5	38805.7	38788.6
5°	39904.2	39989.9	40018.1	40095.4	40111.5	40180.7	40182.1	40237.1	40230.4	40273.4	40250.6
7.5°	41103.1	41183.1	41221.0	41281.0	41311.1	41360.8	41380.2	41421.2	41431.0	41455.2	41454.4
10°	41204.2	41203.9	41222.7	41214.3	41231.1	41221.4	41241.9	41234.5	41264.7	41257.0	41279.8
12.5°	39842.8	39707.7	39658.4	39537.0	39510.5	39406.3	39413.7	39346.9	39379.1	39338.1	39408.0
15°	36916.9	36603.5	36448.6	36176.1	36090.5	35875.1	35857.7	35714.6	35753.2	35678.4	35787.8
17.5°	32593.2	32099.7	31828.9	31431.0	31273.0	30968.3	30907.3	30723.1	30751.7	30658.9	30791.0
20°	27438.2	26841.9	26500.2	26040.1	25834.8	25471.6	25375.3	25169.3	25195.1	25102.8	25252.3
22.5°	22224.4	21600.1	21214.6	20732.2	20470.1	20128.5	20026.0	19819.0	19830.8	19744.1	19887.9
25°	17433.0	16834.6	16460.3	16022.1	15794.7	15481.5	15373.8	15188.0	15198.5	15127.0	15256.1
27.5°	13485.7	12994.7	12681.5	12314.3	12110.3	11852.9	11747.9	11591.6	11591.2	11538.8	11646.6
30°	10538.3	10128.6	9847.4	9527.6	9336.1	9103.8	9002.3	8862.5	8856.4	8819.2	8904.8
32.5°	8251.3	7886.8	7630.3	7348.9	7177.0	6977.6	6881.6	6769.2	6759.0	6725.3	6795.6
35°	6414.3	6107.4	5886.8	5649.9	5667.4	5373.2	5422.1	5193.7	5131.8	5118.2	5170.5
37.5°	4957.5	4719.8	4540.7	4363.2	4243.0	4118.7	4051.7	3991.7	3984.9	3979.0	4015.7
40°	3880.4	3714.1	3583.8	3462.0	3379.3	3303.4	3261.5	3228.6	3220.7	3216.3	3238.5
42.5°	3140.6	3028.4	2944.4	2870.1	2819.8	2778.6	2755.5	2737.3	2731.1	2731.3	2744.3
45°	2653.4	2585.3	2531.2	2485.0	2452.9	2467.0	2425.5	2447.2	2418.5	2448.2	2428.6
47.5°	2336.7	2278.7	2245.2	2212.5	2193.0	2177.4	2177.9	2178.2	2184.4	2185.3	2191.7
50°	2092.3	2058.8	2035.5	2014.6	2004.5	1996.2	1999.1	2001.2	2007.2	2007.6	2012.3
52.5°	1911.4	1889.4	1875.4	1862.4	1857.9	1853.2	1855.2	1854.3	1857.0	1855.6	1859.5
55°	1764.2	1753.9	1749.5	1744.6	1745.4	1744.1	1744.9	1740.2	1737.4	1733.8	1737.1
57.5°	1643.5	1642.1	1645.0	1647.0	1652.5	1654.5	1655.8	1650.4	1645.3	1640.6	1643.4
60°	1550.4	1552.7	1560.1	1566.0	1574.0	1577.7	1579.9	1576.9	1573.1	1569.3	1571.6
62.5°	1458.6	1462.2	1471.0	1477.7	1487.3	1492.3	1497.8	1498.1	1499.6	1498.1	1499.7
65°	1352.0	1356.4	1364.4	1369.9	1378.9	1383.3	1389.0	1390.0	1393.1	1392.4	1395.1
67.5°	1271.0	1275.0	1281.7	1286.9	1294.9	1299.5	1304.5	1304.7	1305.9	1305.6	1308.1
70°	1184.7	1186.6	1192.6	1197.0	1205.0	1209.7	1215.4	1217.1	1220.6	1221.2	1224.0
72.5°	1092.6	1091.7	1095.3	1097.3	1103.3	1107.0	1114.2	1118.1	1124.1	1125.7	1127.9
75°	992.3	991.4	995.7	997.4	1002.6	1006.2	1014.4	1019.6	1028.8	1032.6	1031.7
77.5°	876.2	878.2	886.1	890.5	897.4	902.1	912.6	921.0	937.9	945.2	937.7
80°	746.4	748.5	756.8	760.9	769.8	775.5	787.3	797.0	812.3	815.6	811.3
82.5°	586.8	587.4	594.7	597.9	609.5	617.9	632.8	640.6	650.0	648.6	647.5
85°	400.1	405.5	414.8	424.0	438.2	451.8	465.9	477.5	469.3	482.2	467.7
87.5°	213.9	213.3	225.7	223.8	243.6	255.2	267.4	273.2	279.8	278.5	278.6
90°	34.8	32.8	33.9	31.6	33.6	31.0	34.0	31.8	35.5	32.3	37.7
92.5°	24.9	24.2	23.1	22.4	21.3	20.6	19.5	18.5	17.7	16.8	17.7
95°	29.9	29.0	28.2	27.3	26.4	25.7	24.8	24.0	23.1	22.3	23.3
97.5°	36.2	35.7	35.2	34.7	34.2	33.7	33.3	32.7	32.1	31.7	32.3
100°	40.7	40.7	40.7	40.7	40.4	40.4	40.4	40.4	40.4	40.4	40.9
102.5°	72.7	71.1	69.5	67.7	66.1	64.4	62.9	61.3	59.7	58.1	60.4
105°	156.6	150.3	144.0	137.6	131.1	124.9	118.6	112.2	105.9	99.7	106.1
107.5°	285.3	273.7	262.1	250.7	239.0	227.5	216.1	204.7	193.1	181.7	192.0
110°	395.8	383.5	371.1	358.9	346.7	334.4	322.2	310.1	297.9	285.7	295.4



TEST NUMBER: P1444474
 CATALOG NUMBER: EHBR1-48-UNV-TA-L830-UPL12

CANDELA DISTRIBUTION (continued):

	247.5°	250°	252.5°	255°	257.5°	260°	262.5°	265°	267.5°	270°	272.5°
112.5°	441.3	432.9	425.0	417.0	409.0	401.2	393.2	385.4	377.6	369.7	374.5
115°	436.4	432.5	428.5	424.7	420.9	416.8	413.1	409.3	405.7	401.9	402.2
117.5°	402.6	401.0	399.6	398.1	396.6	395.3	394.0	392.8	391.5	390.4	387.8
120°	353.7	353.6	353.5	353.8	354.0	354.4	354.4	354.9	355.4	355.9	352.3
122.5°	305.9	306.2	306.7	307.3	308.0	308.7	309.5	310.6	311.6	312.7	309.1
125°	265.2	265.6	265.8	266.4	266.7	267.6	268.4	269.5	270.3	271.6	268.6
127.5°	237.5	237.1	236.5	236.5	236.3	236.5	236.7	237.1	237.5	238.2	236.3
130°	221.8	220.8	219.7	218.8	217.8	217.3	216.9	216.5	216.3	216.2	215.5
132.5°	215.3	213.8	212.2	210.8	209.4	208.5	207.4	206.8	206.1	205.7	205.5
135°	214.4	212.5	210.8	209.1	207.4	206.4	204.9	204.0	203.1	202.3	202.9
137.5°	216.2	214.5	212.5	211.0	209.4	208.2	206.7	205.8	205.0	204.2	204.9
140°	221.0	219.2	217.3	215.8	214.4	213.1	211.9	211.0	209.8	209.4	209.8
142.5°	225.0	223.7	221.9	220.5	219.1	218.1	217.0	216.2	215.2	214.8	215.2
145°	229.4	228.3	227.0	225.8	224.9	224.2	223.1	222.7	222.2	222.0	222.3
147.5°	233.1	232.4	231.3	230.6	229.6	229.2	228.5	228.2	227.7	227.6	227.8
150°	235.4	234.9	234.3	233.8	233.2	233.0	232.6	232.4	232.1	232.1	232.2
152.5°	236.6	236.3	235.7	235.4	235.0	234.8	234.6	234.6	234.5	234.5	234.6
155°	236.9	236.7	236.6	236.6	236.5	236.7	236.6	236.9	236.9	237.2	237.3
157.5°	238.5	238.7	238.7	239.0	239.0	239.3	239.4	239.9	240.0	240.5	240.7
160°	241.2	241.4	241.4	241.7	241.8	242.0	242.2	242.5	242.8	243.1	243.5
162.5°	243.8	244.2	244.4	244.7	245.0	245.3	245.8	246.4	246.6	247.2	247.7
165°	248.5	248.6	248.6	248.8	249.1	249.3	249.4	250.1	250.3	250.8	251.2
167.5°	253.1	253.3	253.3	253.4	253.7	254.0	254.2	254.7	255.1	255.7	256.1
170°	258.6	258.6	258.6	258.6	258.6	258.9	259.1	259.2	259.4	259.7	260.0
172.5°	264.4	264.4	264.2	264.4	264.2	264.4	264.4	264.6	264.6	264.8	264.9
175°	268.1	268.5	268.6	268.7	268.6	268.7	268.8	268.8	268.9	269.2	269.2
177.5°	271.4	271.5	271.5	271.5	271.5	271.6	271.6	271.6	271.6	271.5	271.6
180°	270.9	270.9	270.9	270.9	270.9	270.9	270.9	270.9	270.9	270.9	270.9



TEST NUMBER: P1444474
 CATALOG NUMBER: EHBR1-48-UNV-TA-L830-UPL12

CANDELA DISTRIBUTION (continued):

	275°	277.5°	280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°
0°	38337.2	38337.2	38337.2	38337.2	38337.2	38337.2	38337.2	38337.2	38337.2	38337.2	38337.2
2.5°	38817.1	38797.6	38817.5	38797.4	38817.5	38793.3	38809.7	38783.6	38790.2	38763.1	38770.1
5°	40284.9	40253.8	40270.3	40230.1	40234.4	40180.7	40179.7	40117.2	40100.7	40029.5	39998.2
7.5°	41471.7	41461.5	41467.3	41441.3	41438.4	41401.7	41384.3	41332.6	41300.0	41234.5	41189.7
10°	41283.8	41314.0	41321.9	41352.7	41359.1	41389.6	41396.1	41426.6	41433.0	41455.5	41455.8
12.5°	39404.7	39507.5	39532.0	39658.9	39712.3	39857.5	39935.5	40095.4	40190.4	40350.0	40448.0
15°	35784.8	35962.5	36033.4	36281.3	36418.3	36707.6	36889.4	37221.5	37456.0	37808.8	38060.4
17.5°	30802.6	31051.1	31163.2	31499.2	31718.4	32145.3	32453.1	32959.6	33347.4	33910.3	34356.4
20°	25277.8	25553.9	25706.0	26089.4	26348.1	26847.0	27231.2	27853.6	28372.6	29085.9	29695.8
22.5°	19933.0	20195.7	20364.6	20754.7	21045.9	21566.2	21995.6	22652.5	23234.1	24037.8	24769.2
25°	15304.8	15545.5	15698.2	16051.0	16324.5	16802.6	17212.7	17844.5	18413.5	19219.8	19969.6
27.5°	11700.3	11901.9	12049.2	12349.9	12591.1	12996.6	13348.9	13871.1	14361.3	15058.8	15726.6
30°	8957.6	9136.3	9279.5	9541.5	9765.2	10116.6	10426.4	10865.0	11270.8	11825.8	12357.1
32.5°	6845.1	6999.0	7126.6	7355.9	7558.8	7875.3	8154.3	8538.9	8887.1	9357.8	9794.9
35°	5219.1	5521.9	5500.4	5816.7	5867.5	6094.8	6343.7	6679.9	6988.3	7388.6	7760.5
37.5°	4050.9	4136.0	4227.2	4367.0	4513.9	4720.6	4930.9	5341.7	5492.3	5794.9	6102.8
40°	3266.6	3324.2	3384.4	3478.8	3581.8	3727.4	3880.5	4076.5	4277.2	4522.4	4773.0
42.5°	2761.6	2794.2	2832.5	2888.1	2951.5	3043.8	3146.3	3279.1	3418.8	3591.4	3767.6
45°	2467.4	2451.9	2463.3	2493.1	2531.4	2587.5	2652.1	2734.3	2825.3	2937.1	3056.2
47.5°	2193.0	2199.3	2202.7	2218.9	2239.4	2277.0	2316.2	2372.0	2479.9	2512.7	2577.6
50°	2011.9	2014.9	2013.8	2022.1	2032.5	2056.9	2082.4	2120.1	2157.9	2207.9	2255.7
52.5°	1860.0	1864.2	1863.7	1869.1	1874.6	1890.1	1906.2	1932.9	1957.6	1989.5	2016.8
55°	1740.1	1745.9	1748.2	1752.8	1755.4	1763.5	1769.9	1782.7	1793.2	1811.2	1827.9
57.5°	1647.9	1655.8	1659.5	1661.1	1657.8	1657.4	1655.3	1658.0	1660.1	1669.8	1679.1
60°	1575.3	1581.6	1582.7	1581.6	1575.7	1571.4	1564.6	1562.4	1561.3	1566.0	1571.1
62.5°	1499.3	1501.5	1500.0	1498.1	1491.3	1487.2	1480.1	1477.5	1475.1	1478.4	1481.0
65°	1394.1	1396.1	1394.1	1393.0	1386.9	1383.6	1377.6	1375.7	1372.2	1373.1	1372.5
67.5°	1308.7	1310.7	1309.1	1307.6	1303.3	1301.4	1297.0	1294.1	1289.9	1288.4	1285.5
70°	1223.6	1225.2	1222.8	1221.2	1216.4	1214.5	1210.4	1209.6	1206.3	1205.5	1202.3
72.5°	1125.7	1125.8	1122.5	1121.4	1117.9	1117.8	1116.1	1117.6	1117.5	1119.2	1118.4
75°	1025.5	1024.1	1019.9	1019.1	1016.4	1017.7	1015.9	1018.3	1018.6	1022.3	1022.7
77.5°	925.3	919.9	911.9	908.0	902.6	902.0	898.8	900.9	900.3	904.5	906.2
80°	798.5	792.1	781.8	776.7	770.3	769.4	766.5	769.4	767.9	773.0	776.4
82.5°	637.5	632.0	621.2	617.2	609.8	610.5	607.4	610.5	610.1	617.5	621.8
85°	471.5	467.9	456.8	447.0	436.0	429.7	423.4	422.3	420.4	423.4	425.9
87.5°	272.4	268.9	260.3	254.6	235.4	236.2	228.7	228.4	226.5	224.8	228.7
90°	35.7	40.1	38.4	42.3	41.2	45.8	45.1	49.6	47.9	52.0	51.1
92.5°	18.5	19.5	20.4	21.3	22.2	23.1	24.0	24.9	26.9	28.6	30.8
95°	24.4	25.5	26.5	27.5	28.6	29.7	30.7	31.8	34.7	37.5	40.4
97.5°	33.2	33.7	34.5	35.1	35.9	36.5	37.3	37.9	41.1	44.2	47.3
100°	41.5	42.1	42.6	43.2	43.7	44.3	44.9	45.4	51.6	57.6	63.5
102.5°	62.9	65.2	67.5	70.0	72.5	74.8	77.3	79.6	93.5	107.1	120.7
105°	112.7	119.1	125.9	132.4	138.9	145.4	152.0	158.5	180.5	202.3	224.3
107.5°	202.2	212.5	222.8	233.2	243.5	253.9	264.2	274.6	296.0	317.5	338.9
110°	305.3	315.2	325.0	334.9	344.7	354.6	364.6	374.6	387.6	400.5	413.6



TEST NUMBER: P1444474
 CATALOG NUMBER: EHBR1-48-UNV-TA-L830-UPL12

CANDELA DISTRIBUTION (continued):

	275°	277.5°	280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°
112.5°	379.4	384.1	389.0	393.9	398.9	403.8	408.8	413.8	420.5	427.0	433.9
115°	402.6	402.9	403.4	403.8	404.4	404.8	405.6	406.2	408.6	410.9	413.5
117.5°	385.2	382.7	380.3	377.8	375.3	373.3	371.0	369.0	369.0	369.0	369.3
120°	349.2	345.7	342.5	339.0	336.0	332.8	330.0	327.1	326.0	324.9	323.9
122.5°	305.8	302.6	299.4	296.2	293.2	290.4	287.7	284.9	284.4	284.0	283.6
125°	265.8	263.2	260.7	258.2	256.0	253.8	251.9	249.8	250.6	251.3	252.3
127.5°	234.8	233.4	232.1	230.8	230.0	228.9	228.2	227.3	229.1	230.9	232.7
130°	215.2	214.8	214.7	214.4	214.8	214.8	215.2	215.3	217.8	220.0	222.5
132.5°	206.0	206.3	206.8	207.4	208.2	209.1	210.2	211.1	213.8	216.1	218.8
135°	203.4	204.0	205.0	205.9	207.3	208.4	209.8	211.0	213.8	216.0	218.6
137.5°	205.7	206.5	207.5	208.6	210.1	211.3	213.0	214.3	216.5	218.5	220.7
140°	210.6	211.2	212.3	213.3	214.4	215.6	217.1	218.3	220.4	221.9	223.7
142.5°	216.1	216.5	217.5	218.4	219.7	220.6	221.9	222.8	224.4	225.7	227.5
145°	222.8	223.3	224.2	224.8	225.8	226.8	227.7	228.7	229.9	230.9	232.0
147.5°	228.4	228.7	229.5	230.2	231.1	231.7	232.5	233.1	234.3	235.1	236.0
150°	232.7	233.1	233.5	233.9	234.6	235.4	236.1	236.6	237.4	238.0	239.0
152.5°	235.1	235.4	235.9	236.2	236.8	237.4	237.9	238.5	239.3	239.8	240.5
155°	237.7	238.3	238.9	239.3	240.0	240.3	241.0	241.4	242.1	242.7	243.5
157.5°	241.3	241.6	242.3	242.6	243.4	243.7	244.3	244.8	245.4	245.9	246.4
160°	244.1	244.8	245.2	245.9	246.5	247.0	247.7	248.3	248.9	249.4	249.9
162.5°	248.2	248.8	249.4	249.7	250.3	250.9	251.3	251.9	252.7	253.1	253.8
165°	251.9	252.3	253.1	253.5	254.3	254.9	255.4	256.1	256.5	257.0	257.5
167.5°	256.7	257.0	257.9	258.3	258.9	259.5	260.0	260.5	261.1	261.3	261.9
170°	260.5	261.0	261.5	262.0	262.6	262.8	263.5	263.9	264.5	264.9	265.5
172.5°	265.3	265.6	265.9	266.1	266.5	267.0	267.3	267.5	268.1	268.5	268.7
175°	269.2	269.2	269.3	269.5	269.6	269.6	269.8	270.1	270.1	270.3	270.4
177.5°	271.6	271.6	271.7	271.8	271.9	271.9	272.0	272.1	272.1	272.1	272.1
180°	270.9	270.9	270.9	270.9	270.9	270.9	270.9	270.9	270.9	270.9	270.9



TEST NUMBER: P1444474
 CATALOG NUMBER: EHBR1-48-UNV-TA-L830-UPL12

CANDELA DISTRIBUTION (continued):

	302.5°	305°	307.5°	310°	312.5°	315°	317.5°	320°	322.5°	325°	327.5°
0°	38337.2	38337.2	38337.2	38337.2	38337.2	38337.2	38337.2	38337.2	38337.2	38337.2	38337.2
2.5°	38742.9	38744.6	38713.3	38711.6	38682.4	38678.7	38650.1	38641.5	38618.4	38609.9	38586.3
5°	39918.4	39880.3	39792.3	39740.6	39653.7	39596.1	39502.0	39440.7	39349.9	39281.4	39190.0
7.5°	41107.2	41048.1	40949.4	40869.4	40748.7	40652.4	40511.3	40395.7	40242.8	40110.4	39949.9
10°	41455.8	41446.7	41421.6	41384.9	41328.8	41265.8	41169.7	41069.5	40935.6	40790.0	40611.6
12.5°	40598.0	40690.6	40816.9	40891.7	40982.9	41022.8	41060.2	41050.8	41026.2	40952.6	40849.4
15°	38424.8	38685.1	39029.8	39296.9	39604.2	39827.5	40074.3	40228.0	40381.2	40452.1	40495.3
17.5°	34967.8	35460.7	36078.7	36590.9	37181.9	37656.5	38176.9	38568.6	38971.4	39260.0	39521.0
20°	30527.3	31241.4	32115.5	32887.8	33785.7	34566.0	35421.1	36123.1	36846.9	37413.1	37948.8
22.5°	25710.9	26559.0	27615.8	28594.7	29752.3	30792.6	31966.3	32987.9	34054.5	34945.6	35807.2
25°	20974.7	21904.7	23060.4	24152.6	25463.5	26673.6	28065.6	29338.8	30717.4	31914.3	33096.7
27.5°	16649.9	17563.0	18742.8	19905.4	21291.7	22581.1	24072.6	25475.3	27045.0	28492.5	29973.4
30°	13095.3	13869.8	14927.6	16053.7	17421.0	18733.1	20240.7	21683.4	23316.4	24896.9	26564.8
32.5°	10375.0	10965.0	11796.6	12748.9	14010.4	15259.5	16695.1	18087.8	19695.8	21292.4	23027.1
35°	8239.7	8699.9	9333.9	10077.0	11145.3	12222.1	13491.8	14758.3	16258.5	17773.6	19459.7
37.5°	6497.4	6870.8	7367.4	7925.6	8782.5	9666.1	10707.3	11757.3	13060.9	14403.9	15931.9
40°	5073.8	5376.1	5762.7	6179.0	6826.1	7506.9	8312.1	9126.4	10173.7	11271.2	12535.9
42.5°	3985.8	4208.9	4482.0	4786.2	5389.9	5751.3	6297.4	6886.3	7656.2	8453.0	9403.8
45°	3200.9	3353.1	3542.5	3746.6	4026.7	4333.4	4707.3	5099.4	5830.9	6189.7	6767.9
47.5°	2673.1	2775.3	2895.7	3024.4	3189.6	3367.9	3589.7	3816.4	4109.7	4413.7	4770.0
50°	2317.6	2421.5	2462.9	2529.5	2625.1	2726.9	2852.0	2977.0	3134.3	3293.7	3477.2
52.5°	2053.8	2087.6	2132.6	2175.0	2234.2	2350.2	2387.7	2453.1	2541.3	2627.6	2723.9
55°	1852.3	1874.4	1903.6	1929.2	1965.0	1999.2	2048.7	2092.1	2151.0	2203.0	2266.9
57.5°	1695.4	1709.5	1729.8	1746.6	1769.8	1789.1	1818.1	1841.7	1875.5	1904.9	1943.7
60°	1581.5	1590.9	1604.5	1615.4	1630.2	1640.4	1654.7	1665.7	1683.6	1698.6	1720.2
62.5°	1488.4	1493.3	1502.2	1508.7	1518.0	1523.1	1530.8	1535.6	1545.4	1553.0	1565.1
65°	1376.8	1377.9	1383.9	1386.6	1394.0	1396.6	1402.9	1405.2	1413.3	1418.8	1429.5
67.5°	1285.3	1282.7	1282.8	1280.8	1281.7	1279.5	1280.2	1277.9	1281.1	1282.8	1291.0
70°	1201.7	1198.1	1197.0	1193.2	1192.1	1188.1	1187.0	1183.4	1183.0	1181.8	1184.7
72.5°	1120.3	1119.4	1119.6	1116.9	1116.7	1113.9	1114.0	1112.3	1114.2	1115.1	1118.7
75°	1026.7	1027.0	1028.8	1026.4	1027.1	1024.9	1025.7	1023.5	1024.7	1024.3	1027.9
77.5°	912.7	915.4	920.4	919.4	921.0	918.4	919.6	916.6	917.4	915.4	916.9
80°	784.6	790.3	797.0	796.7	799.5	797.6	800.2	797.3	798.5	795.1	794.2
82.5°	632.4	637.2	644.4	644.6	650.9	652.0	659.0	658.7	663.1	660.3	658.2
85°	432.4	435.7	441.8	445.3	451.7	455.6	462.4	465.1	460.2	469.0	462.1
87.5°	225.7	234.2	229.5	240.4	237.8	248.9	246.5	256.8	254.8	263.6	262.5
90°	56.8	56.5	62.5	62.6	69.9	71.0	76.6	75.1	80.5	79.2	84.6
92.5°	32.5	34.8	36.7	38.7	40.7	42.8	40.8	39.0	37.2	35.5	33.5
95°	43.2	46.1	48.9	51.8	54.6	57.5	54.4	51.4	48.3	45.2	42.2
97.5°	50.4	53.4	56.5	59.6	62.9	65.9	62.3	58.6	55.0	51.4	47.9
100°	69.5	75.5	81.5	87.4	93.6	99.5	92.8	86.0	79.4	72.6	65.9
102.5°	134.6	148.3	162.0	175.8	189.4	203.2	188.9	174.8	160.5	146.1	131.7
105°	246.3	268.3	290.2	312.1	334.0	356.3	333.1	310.0	286.6	263.6	240.3
107.5°	360.4	381.8	403.5	424.8	446.3	468.1	444.7	421.1	397.8	374.3	350.8
110°	426.8	439.7	452.8	466.0	479.0	492.3	475.3	458.3	441.3	424.2	407.1



TEST NUMBER: P1444474
 CATALOG NUMBER: EHBR1-48-UNV-TA-L830-UPL12

CANDELA DISTRIBUTION (continued):

	302.5°	305°	307.5°	310°	312.5°	315°	317.5°	320°	322.5°	325°	327.5°
112.5°	440.5	447.6	454.1	461.1	467.9	474.7	462.7	450.8	438.7	426.8	414.7
115°	416.1	418.5	421.1	423.8	426.2	428.7	420.9	413.0	405.1	397.3	389.0
117.5°	369.4	369.9	370.0	370.6	370.6	370.8	366.6	362.6	358.3	354.1	349.8
120°	322.8	321.9	321.0	320.0	318.9	317.7	316.4	315.2	313.6	312.1	310.4
122.5°	283.2	283.0	282.5	282.1	281.6	281.1	281.0	281.0	280.7	280.5	280.2
125°	253.1	254.0	254.8	255.6	256.4	257.1	257.3	257.7	258.0	258.3	258.3
127.5°	234.3	236.1	237.6	239.3	240.8	242.4	242.9	243.7	244.3	244.9	245.3
130°	224.6	227.2	229.3	231.4	233.4	235.8	236.1	236.8	237.3	237.8	238.3
132.5°	221.3	223.7	226.0	228.7	230.8	233.1	233.6	234.3	234.5	235.1	235.6
135°	221.0	223.3	225.5	228.0	230.0	232.2	232.6	233.1	233.3	234.0	234.3
137.5°	222.5	224.7	226.5	228.5	230.2	232.2	232.4	233.0	233.1	233.8	234.1
140°	225.4	227.1	228.6	230.3	231.7	233.4	233.6	233.9	234.1	234.3	234.4
142.5°	228.7	230.2	231.4	233.0	234.0	235.5	235.2	235.2	235.2	235.2	235.1
145°	233.1	234.4	235.3	236.3	237.0	238.2	237.8	237.7	237.4	237.3	236.9
147.5°	236.7	237.6	238.2	239.0	239.4	240.4	240.0	239.7	239.4	239.0	238.6
150°	239.4	240.4	240.9	241.5	242.0	242.8	242.2	241.9	241.3	240.8	240.5
152.5°	241.2	241.9	242.4	242.8	243.4	243.8	243.3	243.1	242.3	241.8	241.3
155°	243.7	244.4	244.7	245.2	245.4	245.8	245.1	245.0	244.6	244.0	243.5
157.5°	246.8	247.4	247.9	248.1	248.4	248.9	248.5	248.2	247.8	247.6	247.0
160°	250.3	250.8	251.1	251.4	251.9	252.0	251.7	251.7	251.4	251.0	250.6
162.5°	254.1	254.8	255.2	255.4	256.0	256.4	256.1	255.9	255.4	255.2	254.7
165°	257.9	258.3	258.8	259.2	259.4	259.7	259.6	259.5	259.2	259.1	258.7
167.5°	262.2	262.8	263.1	263.5	263.7	264.0	263.7	263.9	263.5	263.2	262.9
170°	265.7	266.1	266.6	266.9	267.1	267.3	267.3	267.2	267.0	266.8	266.5
172.5°	269.1	269.5	269.6	269.9	270.0	270.3	270.2	270.0	269.8	269.5	269.2
175°	270.4	270.6	270.9	270.9	270.9	271.0	270.8	270.6	270.3	270.1	270.0
177.5°	272.1	272.1	272.1	272.0	272.0	272.0	271.9	271.7	271.6	271.5	271.2
180°	270.9	270.9	270.9	270.9	270.9	270.9	270.9	270.9	270.9	270.9	270.9



TEST NUMBER: P1444474
 CATALOG NUMBER: EHBR1-48-UNV-TA-L830-UPL12

CANDELA DISTRIBUTION (continued):

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
0°	38337.2	38337.2	38337.2	38337.2	38337.2	38337.2	38337.2	38337.2	38337.2	38337.2	38337.2
2.5°	38578.0	38561.2	38550.4	38536.7	38528.2	38517.6	38509.8	38503.1	38497.7	38492.7	38489.0
5°	39120.4	39034.2	38967.3	38894.8	38835.3	38775.9	38730.1	38692.2	38666.0	38646.5	38634.8
7.5°	39811.1	39653.2	39512.9	39365.1	39232.6	39102.4	38990.1	38893.4	38820.8	38773.8	38745.2
10°	40427.9	40216.6	40007.6	39787.6	39579.0	39376.8	39190.0	39025.8	38895.8	38809.4	38759.0
12.5°	40704.4	40524.4	40311.0	40072.1	39816.5	39557.9	39305.9	39078.6	38887.7	38759.7	38685.8
15°	40460.9	40387.0	40242.1	40056.8	39814.2	39546.8	39250.9	38972.7	38716.8	38550.8	38454.6
17.5°	39668.8	39771.9	39760.8	39689.9	39515.5	39290.5	38988.9	38676.4	38356.4	38134.5	38013.3
20°	38332.0	38656.3	38820.8	38905.2	38836.7	38690.8	38417.7	38100.5	37727.4	37437.9	37261.2
22.5°	36453.5	37026.0	37382.7	37643.8	37699.2	37649.5	37408.3	37106.7	36690.9	36342.7	36081.7
25°	34035.3	34874.0	35437.9	35879.8	36051.5	36095.8	35890.7	35590.7	35127.1	34721.5	34363.1
27.5°	31187.0	32276.7	33029.6	33623.4	33891.5	34007.8	33818.9	33512.9	32964.5	32480.4	32012.1
30°	27980.3	29273.3	30179.6	30891.7	31218.5	31372.2	31171.5	30830.0	30191.7	29609.2	29019.2
32.5°	24548.2	25963.0	26950.7	27724.1	28047.9	28192.3	27929.9	27546.3	26808.6	26122.4	25434.4
35°	20954.8	22382.9	23378.8	24131.7	24403.0	24490.2	24154.5	23711.1	22893.8	22140.6	21390.5
37.5°	17288.3	18616.9	19522.0	20197.7	20365.6	20380.6	19976.3	19486.5	18627.5	17884.9	17138.1
40°	13653.4	14773.9	15504.7	16045.4	16103.7	16051.7	15612.1	15119.2	14315.6	13650.3	12994.7
42.5°	10229.5	11075.3	11596.7	11967.3	11945.3	11842.5	11439.5	11015.8	10352.8	9846.0	9330.1
45°	7296.2	7853.8	8158.7	8375.6	8306.0	8208.1	7894.4	7597.4	7146.9	6819.5	6472.8
47.5°	5068.8	5734.7	5618.8	6042.7	5677.5	5918.7	5416.3	5139.3	4900.3	4726.4	4530.4
50°	3628.8	3781.4	3855.1	3905.4	3878.7	3841.6	3751.4	3670.7	3561.5	3481.8	3389.1
52.5°	2802.4	2878.7	2920.5	2950.7	2944.8	2931.3	2891.9	2856.0	2804.9	2771.2	2730.5
55°	2373.8	2374.9	2451.7	2418.8	2467.6	2410.4	2432.9	2369.7	2379.9	2325.6	2289.1
57.5°	1972.5	2003.8	2017.9	2031.5	2027.7	2025.3	2010.0	2002.4	1985.2	1979.9	1967.7
60°	1735.1	1751.5	1754.8	1761.1	1755.9	1753.9	1741.9	1737.7	1726.2	1724.0	1716.0
62.5°	1572.3	1580.7	1580.7	1580.7	1573.9	1567.3	1554.1	1547.2	1537.3	1535.2	1530.5
65°	1436.4	1445.2	1446.6	1448.3	1443.4	1438.3	1426.6	1419.1	1409.0	1405.2	1399.8
67.5°	1296.2	1305.5	1308.6	1313.3	1310.5	1309.4	1301.5	1298.5	1291.8	1290.2	1285.3
70°	1186.1	1189.9	1189.6	1189.5	1183.3	1177.7	1168.5	1164.0	1157.1	1155.7	1151.1
72.5°	1120.6	1123.3	1121.6	1119.2	1111.1	1102.9	1092.0	1084.1	1075.0	1069.3	1062.9
75°	1028.4	1032.0	1029.6	1028.1	1020.8	1015.5	1006.8	1002.4	996.0	994.1	989.7
77.5°	915.2	916.9	913.2	912.7	907.2	903.8	897.3	896.1	891.5	891.6	887.3
80°	789.1	788.1	782.2	781.0	775.5	774.1	768.9	769.2	765.6	767.1	764.1
82.5°	649.3	645.8	638.0	635.7	629.3	628.7	625.3	628.2	625.9	629.3	627.3
85°	465.4	466.3	462.9	462.9	461.0	461.6	461.3	463.5	463.8	466.9	466.8
87.5°	259.5	263.1	262.5	265.8	265.7	269.5	270.8	276.5	277.2	282.4	282.4
90°	83.5	89.3	88.0	94.0	93.8	100.0	100.8	107.0	107.0	112.4	111.3
92.5°	31.7	29.9	28.2	26.2	25.3	24.2	23.8	22.3	21.7	20.5	19.6
95°	39.2	36.1	33.0	29.9	28.9	27.7	26.7	25.7	24.5	23.5	22.5
97.5°	44.2	40.6	36.9	33.3	32.3	31.5	30.4	29.5	28.7	27.7	26.8
100°	59.0	52.3	45.6	38.7	37.9	37.2	36.3	35.6	34.8	33.9	33.1
102.5°	117.5	103.1	88.7	74.3	71.6	68.8	66.1	63.2	60.4	57.7	55.0
105°	217.1	193.7	170.5	147.2	139.8	132.4	125.0	117.5	110.0	102.6	95.2
107.5°	327.3	303.6	280.0	256.3	242.8	229.0	215.3	201.5	187.9	174.0	160.4
110°	390.0	372.9	355.8	338.4	327.7	316.6	305.6	294.5	283.6	272.5	261.4



TEST NUMBER: P1444474
 CATALOG NUMBER: EHBR1-48-UNV-TA-L830-UPL12

CANDELA DISTRIBUTION (continued):

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
112.5°	402.5	390.3	378.1	365.7	360.9	355.9	351.2	346.1	341.2	336.1	331.1
115°	381.0	373.0	364.8	356.4	355.1	353.3	351.8	350.0	348.5	346.8	345.0
117.5°	345.6	341.1	336.7	332.3	332.8	333.3	334.0	334.3	334.7	334.9	335.2
120°	308.8	307.2	305.8	304.1	306.1	307.8	309.8	311.3	313.0	314.4	316.0
122.5°	280.1	279.7	279.5	279.0	281.4	283.6	285.7	287.9	289.7	291.4	293.3
125°	258.7	258.8	259.0	258.9	261.5	263.8	266.0	268.0	270.0	271.6	273.5
127.5°	246.0	246.5	247.2	247.5	249.6	251.1	253.0	254.4	256.1	257.2	258.5
130°	238.9	239.1	239.8	240.2	242.0	243.7	245.5	246.8	248.3	249.4	250.5
132.5°	236.1	236.4	237.0	237.3	239.0	240.4	241.8	242.7	243.9	244.6	245.2
135°	234.8	235.1	235.6	235.8	237.3	238.8	240.0	241.0	242.1	242.7	243.4
137.5°	234.6	234.7	235.2	235.4	236.8	238.0	239.2	240.2	241.1	241.9	242.4
140°	234.7	234.8	235.2	235.2	236.5	237.6	238.8	239.6	240.5	241.0	241.6
142.5°	235.1	234.8	235.1	234.8	235.9	236.7	237.5	238.3	239.0	239.4	239.7
145°	236.6	236.2	236.1	235.8	236.5	237.2	238.0	238.6	239.0	239.1	239.5
147.5°	238.5	237.9	237.5	237.1	237.9	238.3	238.8	239.0	239.6	239.7	239.9
150°	239.9	239.1	238.6	238.0	238.5	238.8	239.0	239.4	239.8	239.7	239.9
152.5°	240.6	240.0	239.3	238.6	239.0	239.0	239.2	239.1	239.3	239.3	239.3
155°	243.0	242.3	241.8	240.9	241.2	241.2	241.2	241.2	241.0	240.9	240.7
157.5°	246.5	245.8	245.5	244.8	244.8	244.7	244.6	244.1	244.0	243.7	243.3
160°	250.3	249.7	249.4	248.7	248.5	248.3	248.2	247.8	247.6	247.1	246.6
162.5°	254.2	253.7	253.0	252.4	252.3	252.2	251.9	251.4	251.2	250.8	250.3
165°	258.4	258.1	257.7	257.0	256.8	256.6	256.5	255.9	255.6	255.0	254.6
167.5°	262.6	262.2	261.8	261.2	261.1	261.0	260.8	260.4	260.1	259.7	259.5
170°	266.2	265.8	265.6	265.1	264.8	264.7	264.4	264.2	263.7	263.4	262.9
172.5°	268.8	268.6	268.1	267.5	267.5	267.3	267.1	267.0	266.5	266.2	266.1
175°	269.7	269.4	268.9	268.7	268.6	268.5	268.3	268.2	267.9	267.7	267.4
177.5°	271.0	270.9	270.4	270.3	270.2	270.2	270.1	270.0	270.0	269.8	269.7
180°	270.9	270.9	270.9	270.9	270.9	270.9	270.9	270.9	270.9	270.9	270.9



TEST NUMBER: P1444474
CATALOG NUMBER: EHBR1-48-UNV-TA-L830-UPL12

CANDELA DISTRIBUTION (continued):

	357.5°	360°
0°	38337.2	38337.2
2.5°	38485.6	38483.7
5°	38628.7	38626.4
7.5°	38737.5	38736.8
10°	38750.3	38757.0
12.5°	38673.1	38678.4
15°	38447.2	38457.8
17.5°	38015.6	38029.3
20°	37271.9	37286.4
22.5°	36067.7	36073.6
25°	34316.8	34291.9
27.5°	31929.8	31887.1
30°	28895.4	28854.0
32.5°	25277.6	25251.7
35°	21205.0	21188.7
37.5°	16917.4	16884.2
40°	12755.0	12658.1
42.5°	9104.2	8934.1
45°	6291.8	6090.2
47.5°	4392.3	4267.7
50°	3329.3	3289.1
52.5°	2712.8	2703.4
55°	2288.9	2284.8
57.5°	1970.4	1969.0
60°	1720.2	1719.8
62.5°	1533.7	1534.3
65°	1402.3	1402.5
67.5°	1286.6	1285.7
70°	1152.8	1151.9
72.5°	1060.8	1059.2
75°	989.7	988.8
77.5°	888.6	887.1
80°	766.1	764.1
82.5°	630.1	627.9
85°	470.0	470.1
87.5°	287.6	287.5
90°	116.4	114.6
92.5°	19.0	18.4
95°	21.5	20.4
97.5°	25.9	25.0
100°	32.3	31.6
102.5°	52.3	49.6
105°	87.8	80.4
107.5°	146.6	132.9
110°	250.4	239.3



TEST NUMBER: P1444474
CATALOG NUMBER: EHBR1-48-UNV-TA-L830-UPL12

CANDELA DISTRIBUTION (continued):

	357.5°	360°
112.5°	326.1	321.0
115°	342.7	341.0
117.5°	335.3	335.3
120°	317.1	318.5
122.5°	294.6	296.2
125°	274.9	276.4
127.5°	259.4	260.2
130°	250.9	251.7
132.5°	245.6	245.9
135°	243.5	243.8
137.5°	242.4	242.6
140°	241.6	241.7
142.5°	239.8	239.8
145°	239.6	239.5
147.5°	239.4	239.5
150°	239.6	239.5
152.5°	238.9	238.8
155°	240.4	240.0
157.5°	242.6	242.3
160°	246.1	245.7
162.5°	249.7	249.4
165°	253.8	253.3
167.5°	258.7	258.5
170°	262.6	262.3
172.5°	265.7	265.4
175°	267.3	267.1
177.5°	269.7	269.4
180°	270.9	270.9

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

Report Prepared for

Cooper Lighting Solutions

Metalux

Report Number: SP1-2506-472-2

Test Date: 07/31/2025

Luminaire Tested: EHBR-60-L830-N

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

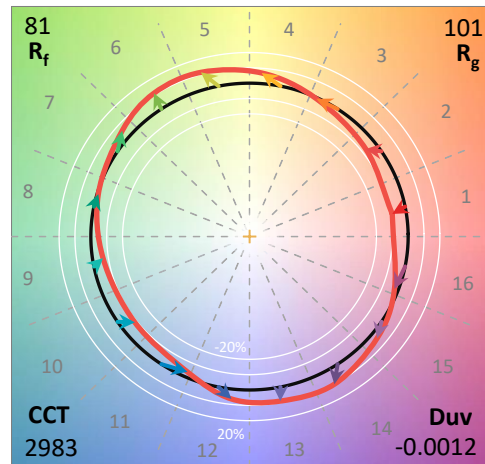
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2506-472-2
 Test Lab: COOPER LIGHTING SOLUTIONS
 Photometer: SP1 - 76IN SPHERE
 Measurement Geometry: 4π
 Issue Date: 08/05/2025
 Manufacturer: COOPER LIGHTING SOLUTIONS
 Product Line: Metalux
 Catalog Number: **EHBR-60-L830-N**
 Description: Elevate Round Highbay at, 60000 lumens, 3000K 80CRI LEDs with N lens

Spectral Parameters

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

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



Test Conditions

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

REPORT NUMBER: SP1-2506-472-2

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

REPORT NUMBER: SP1-2506-472-2

CIE 1931 Chromaticity Diagram



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

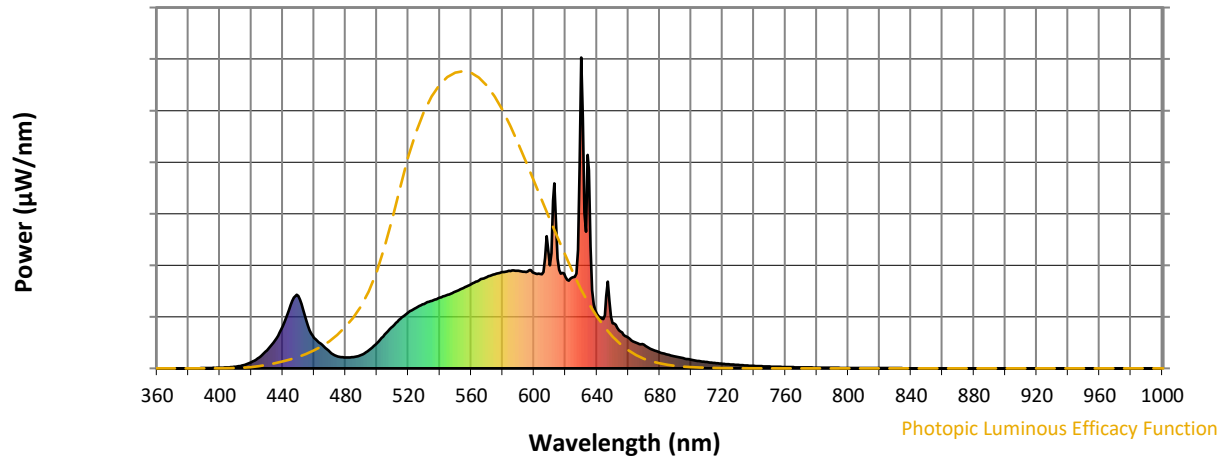


CCT = 2983K
 CIE x = 0.4364
 CIE y = 0.4010
 Duv = -0.0012

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2506-472-2

Photopic Flux vs. Wavelength

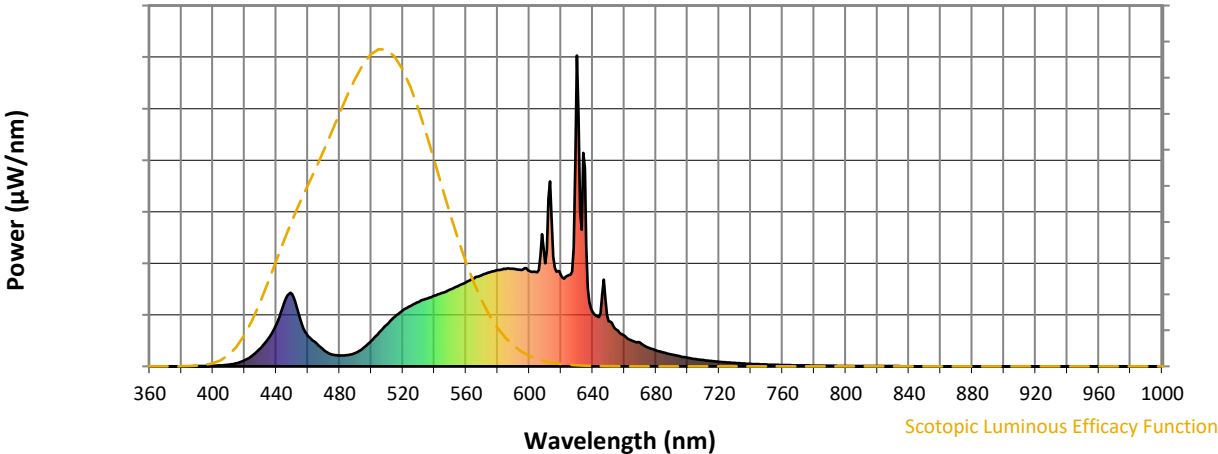


Photopic Lumens: NR

λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	43	NR	620	294	NR	750	6	NR	880	0	NR
365	0	NR	495	59	NR	625	294	NR	755	5	NR	885	0	NR
370	0	NR	500	81	NR	630	1000	NR	760	4	NR	890	0	NR
375	0	NR	505	109	NR	635	637	NR	765	4	NR	895	0	NR
380	0	NR	510	135	NR	640	175	NR	770	3	NR	900	0	NR
385	0	NR	515	160	NR	645	171	NR	775	3	NR	905	0	NR
390	1	NR	520	180	NR	650	146	NR	780	2	NR	910	0	NR
395	1	NR	525	195	NR	655	119	NR	785	2	NR	915	0	NR
400	2	NR	530	207	NR	660	99	NR	790	2	NR	920	0	NR
405	3	NR	535	218	NR	665	82	NR	795	2	NR	925	0	NR
410	5	NR	540	227	NR	670	76	NR	800	1	NR	930	0	NR
415	10	NR	545	237	NR	675	61	NR	805	1	NR	935	0	NR
420	20	NR	550	247	NR	680	52	NR	810	1	NR	940	0	NR
425	35	NR	555	259	NR	685	44	NR	815	1	NR	945	0	NR
430	58	NR	560	271	NR	690	38	NR	820	1	NR	950	0	NR
435	90	NR	565	283	NR	695	33	NR	825	1	NR	955	0	NR
440	135	NR	570	293	NR	700	27	NR	830	1	NR	960	0	NR
445	204	NR	575	303	NR	705	24	NR	835	1	NR	965	0	NR
450	233	NR	580	310	NR	710	20	NR	840	0	NR	970	0	NR
455	153	NR	585	313	NR	715	17	NR	845	0	NR	975	0	NR
460	98	NR	590	314	NR	720	15	NR	850	0	NR	980	0	NR
465	76	NR	595	310	NR	725	13	NR	855	0	NR	985	0	NR
470	53	NR	600	307	NR	730	11	NR	860	0	NR	990	0	NR
475	39	NR	605	303	NR	735	9	NR	865	0	NR	995	0	NR
480	35	NR	610	331	NR	740	8	NR	870	0	NR	1000	0	NR
485	36	NR	615	353	NR	745	7	NR	875	0	NR			

REPORT NUMBER: SP1-2506-472-2

Scotopic Flux vs. Wavelength



Scotopic Lumens: NR

S/P: 1.27

λ (nm)	Power W [^] /nm	Lumens (ϕ /nm)	λ (nm)	Power W [^] /nm	Lumens (ϕ /nm)	λ (nm)	Power W [^] /nm	Lumens (ϕ /nm)	λ (nm)	Power W [^] /nm	Lumens (ϕ /nm)	λ (nm)	Power W [^] /nm	Lumens (ϕ /nm)
360	0	NR	490	43	NR	620	294	NR	750	6	NR	880	0	NR
365	0	NR	495	59	NR	625	294	NR	755	5	NR	885	0	NR
370	0	NR	500	81	NR	630	1000	NR	760	4	NR	890	0	NR
375	0	NR	505	109	NR	635	637	NR	765	4	NR	895	0	NR
380	0	NR	510	135	NR	640	175	NR	770	3	NR	900	0	NR
385	0	NR	515	160	NR	645	171	NR	775	3	NR	905	0	NR
390	1	NR	520	180	NR	650	146	NR	780	2	NR	910	0	NR
395	1	NR	525	195	NR	655	119	NR	785	2	NR	915	0	NR
400	2	NR	530	207	NR	660	99	NR	790	2	NR	920	0	NR
405	3	NR	535	218	NR	665	82	NR	795	2	NR	925	0	NR
410	5	NR	540	227	NR	670	76	NR	800	1	NR	930	0	NR
415	10	NR	545	237	NR	675	61	NR	805	1	NR	935	0	NR
420	20	NR	550	247	NR	680	52	NR	810	1	NR	940	0	NR
425	35	NR	555	259	NR	685	44	NR	815	1	NR	945	0	NR
430	58	NR	560	271	NR	690	38	NR	820	1	NR	950	0	NR
435	90	NR	565	283	NR	695	33	NR	825	1	NR	955	0	NR
440	135	NR	570	293	NR	700	27	NR	830	1	NR	960	0	NR
445	204	NR	575	303	NR	705	24	NR	835	1	NR	965	0	NR
450	233	NR	580	310	NR	710	20	NR	840	0	NR	970	0	NR
455	153	NR	585	313	NR	715	17	NR	845	0	NR	975	0	NR
460	98	NR	590	314	NR	720	15	NR	850	0	NR	980	0	NR
465	76	NR	595	310	NR	725	13	NR	855	0	NR	985	0	NR
470	53	NR	600	307	NR	730	11	NR	860	0	NR	990	0	NR
475	39	NR	605	303	NR	735	9	NR	865	0	NR	995	0	NR
480	35	NR	610	331	NR	740	8	NR	870	0	NR	1000	0	NR
485	36	NR	615	353	NR	745	7	NR	875	0	NR			

REPORT NUMBER: SP1-2506-472-2

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.34

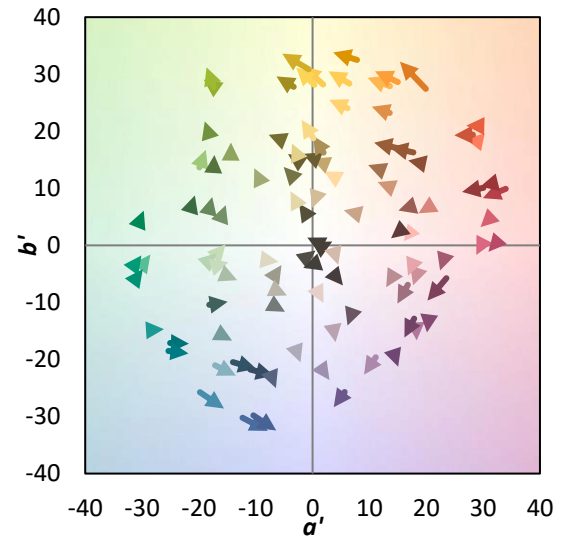
λ (nm)	Power W [^] /nm	Lumens (ϕ /nm)	λ (nm)	Power W [^] /nm	Lumens (ϕ /nm)	λ (nm)	Power W [^] /nm	Lumens (ϕ /nm)	λ (nm)	Power W [^] /nm	Lumens (ϕ /nm)	λ (nm)	Power W [^] /nm	Lumens (ϕ /nm)
360	0	NR	490	43	NR	620	294	NR	750	6	NR	880	0	NR
365	0	NR	495	59	NR	625	294	NR	755	5	NR	885	0	NR
370	0	NR	500	81	NR	630	1000	NR	760	4	NR	890	0	NR
375	0	NR	505	109	NR	635	637	NR	765	4	NR	895	0	NR
380	0	NR	510	135	NR	640	175	NR	770	3	NR	900	0	NR
385	0	NR	515	160	NR	645	171	NR	775	3	NR	905	0	NR
390	1	NR	520	180	NR	650	146	NR	780	2	NR	910	0	NR
395	1	NR	525	195	NR	655	119	NR	785	2	NR	915	0	NR
400	2	NR	530	207	NR	660	99	NR	790	2	NR	920	0	NR
405	3	NR	535	218	NR	665	82	NR	795	2	NR	925	0	NR
410	5	NR	540	227	NR	670	76	NR	800	1	NR	930	0	NR
415	10	NR	545	237	NR	675	61	NR	805	1	NR	935	0	NR
420	20	NR	550	247	NR	680	52	NR	810	1	NR	940	0	NR
425	35	NR	555	259	NR	685	44	NR	815	1	NR	945	0	NR
430	58	NR	560	271	NR	690	38	NR	820	1	NR	950	0	NR
435	90	NR	565	283	NR	695	33	NR	825	1	NR	955	0	NR
440	135	NR	570	293	NR	700	27	NR	830	1	NR	960	0	NR
445	204	NR	575	303	NR	705	24	NR	835	1	NR	965	0	NR
450	233	NR	580	310	NR	710	20	NR	840	0	NR	970	0	NR
455	153	NR	585	313	NR	715	17	NR	845	0	NR	975	0	NR
460	98	NR	590	314	NR	720	15	NR	850	0	NR	980	0	NR
465	76	NR	595	310	NR	725	13	NR	855	0	NR	985	0	NR
470	53	NR	600	307	NR	730	11	NR	860	0	NR	990	0	NR
475	39	NR	605	303	NR	735	9	NR	865	0	NR	995	0	NR
480	35	NR	610	331	NR	740	8	NR	870	0	NR	1000	0	NR
485	36	NR	615	353	NR	745	7	NR	875	0	NR			

Summary

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

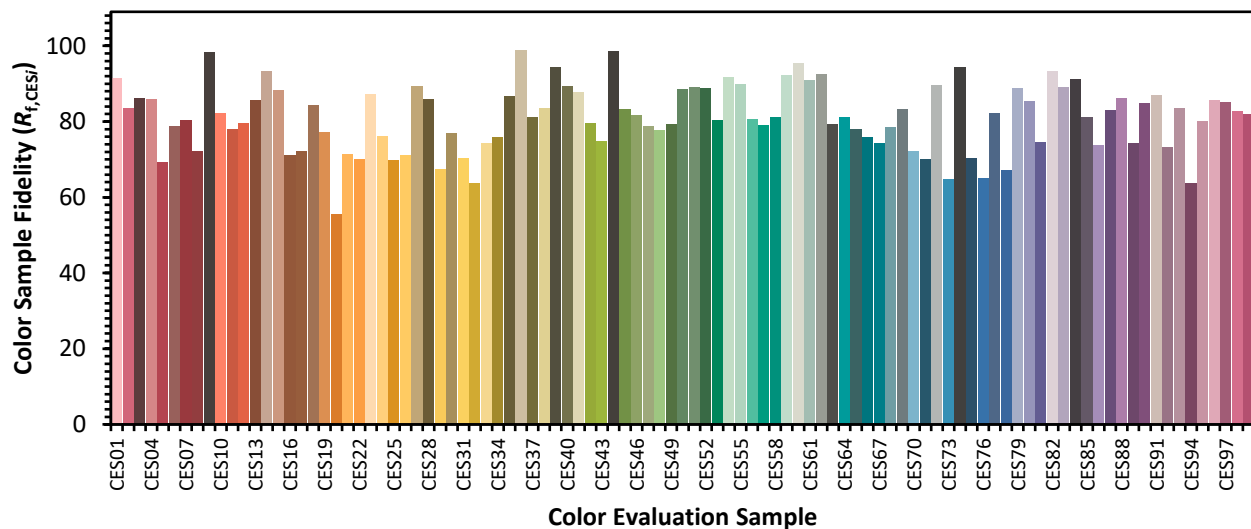


Color Vector Graphics

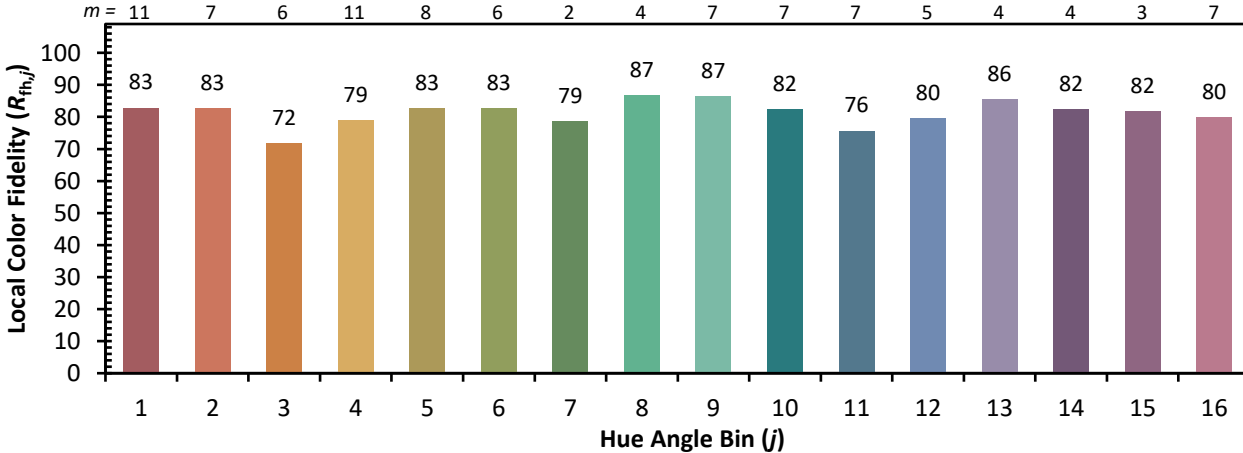


Individual Sample Fidelity Index ($R_{f,i}$)

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



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)