

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: P1444456

Luminaire Tested: EHBR1-30-UNV-TA-L830-UPL40

Issue Date: 5/1/2026

Test Information

Test Method: LM-79-2019
Report Number: P1444456
REPORT IS A COMBINATION OF REPORTS P1444357 AND P1431635
Test Lab: INNOVATION CENTER
Issue Date: 5/1/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: EHBR1-30-UNV-TA-L830-UPL40
Description: Elevate Round Highbay at, 30000 lumens, 3000K 80CRI LEDs with TA lens
Light Source: -
Ballast/Driver: -

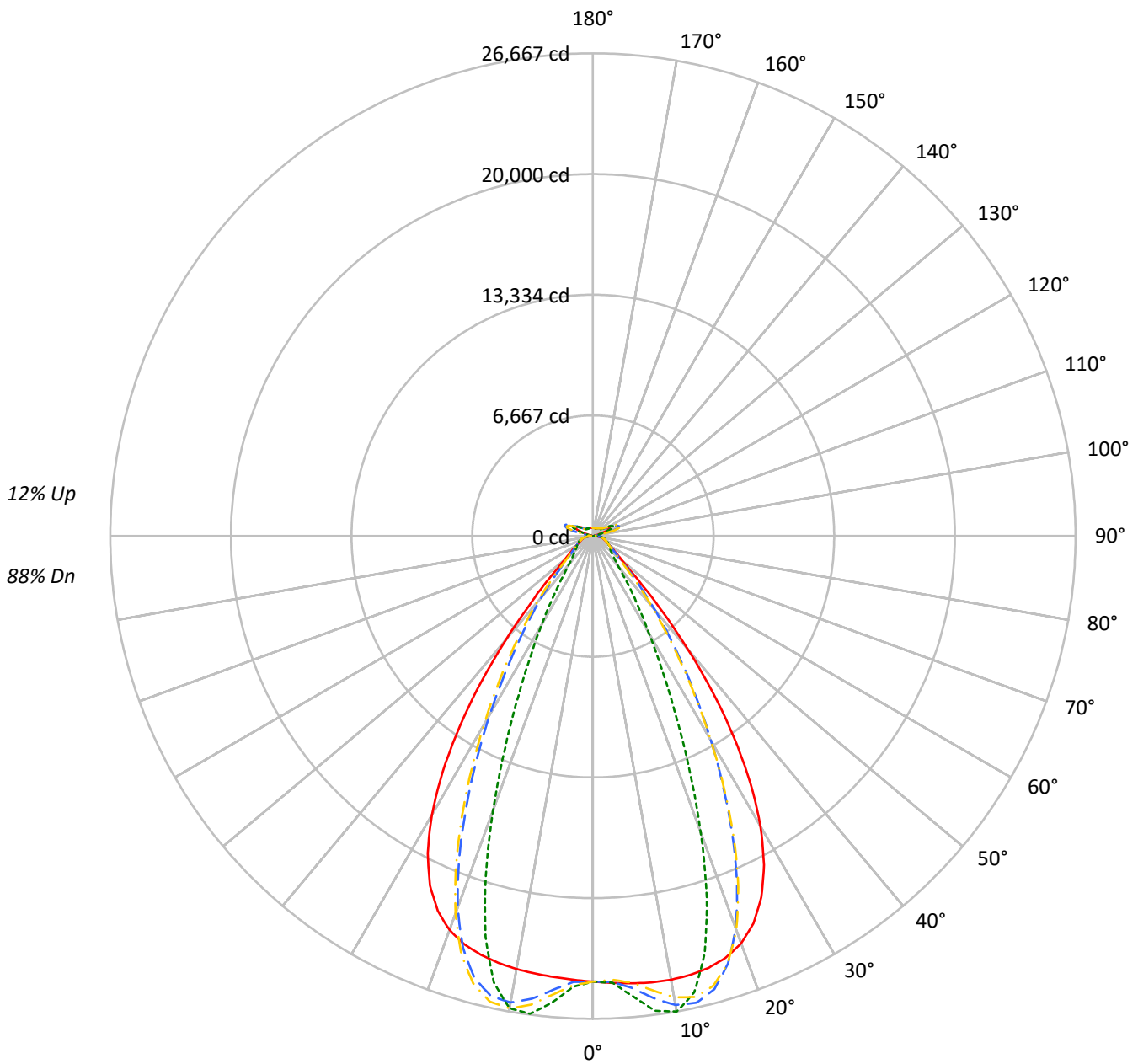
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32132.9 lumens
Efficiency: N/A
Efficacy: 168.8 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 0.77 / 0.88
Luminous Opening: Vertical Cylinder (Dia: 1.71' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 190.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot



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



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				
RC	80				70				50				30				10			0	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	116	116	116	116	112	112	112	112	105	105	105	98	98	98	91	91	91	88			88
1	109	106	102	100	105	102	99	97	96	94	92	90	88	87	85	84	82				80
2	102	96	91	87	99	93	89	85	88	85	82	83	80	78	79	77	75				72
3	96	88	82	77	93	86	80	76	81	77	73	77	74	71	73	71	68				66
4	90	81	75	70	87	79	73	69	75	70	66	72	68	64	69	65	62				60
5	85	75	68	63	82	73	67	62	70	65	61	67	63	59	64	61	58				56
6	80	70	63	58	77	68	62	57	65	60	56	63	58	54	60	56	53				51
7	75	65	58	53	73	63	57	53	61	56	52	59	54	50	57	53	49				48
8	71	61	54	49	69	59	53	49	57	52	48	55	50	47	53	49	46				44
9	67	57	50	46	66	56	50	45	54	48	45	52	47	44	50	46	43				41
10	64	53	47	43	62	52	46	42	51	45	42	49	44	41	48	43	40				39

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	115600	115600	115600	115600
5°	116159	119546	114533	121112
10°	117129	125515	114320	124684
15°	117703	113778	114120	109197
20°	116486	84760	112674	78423
25°	110259	53606	106615	48638
30°	96320	32213	92589	29440
35°	74128	20213	69864	17906
40°	46893	12680	42903	11915
45°	24169	9879	23769	9716
50°	14171	8787	13736	8650
55°	10856	8313	10454	8238
60°	9186	8491	8795	8382
65°	8628	8869	8298	8566
70°	8429	9285	8008	8936
75°	9013	9848	8525	9413
80°	9326	10904	8455	9953
85°	8784	10524	7096	9011

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 25°
 Vertical Angle: 45°
 Luminance: 36988 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2426.0	7.5
10°-20°	6824.5	21.2
20°-30°	7772.6	24.2
30°-40°	5586.6	17.4
40°-50°	2576.5	8.0
50°-60°	1233.0	3.8
60°-70°	899.6	2.8
70°-80°	683.5	2.1
80°-90°	317.3	1.0
90°-100°	105.7	0.3
100°-110°	640.6	2.0
110°-120°	1184.2	3.7
120°-130°	715.9	2.2
130°-140°	449.0	1.4
140°-150°	324.1	1.0
150°-160°	220.1	0.7
160°-170°	129.9	0.4
170°-180°	43.9	0.1
0°-30°	17023.0	53.0
0°-40°	22609.6	70.4
0°-60°	26419.1	82.2
0°-90°	28319.5	88.1
90°-120°	1930.5	6.0
90°-150°	3419.5	10.6
90°-180°	3813.0	11.9
0°-180°	32132.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	24616	24616	24616	24616	24616	
5°	24802	25525	24455	25859	24802	2370
15°	24694	23870	23942	22909	24694	6958
25°	22019	10705	21291	9713	22019	9982
35°	13605	3710	12823	3286	13605	8350
45°	3910	1598	3846	1572	3910	3326
55°	1467	1123	1413	1113	1467	1354
65°	901	926	866	894	901	899
75°	635	694	600	663	635	660
85°	302	362	244	310	302	284
90°	94	116	36	42	94	57
95°	49	54	49	55	49	47
105°	228	296	151	296	228	303
115°	1029	1256	1078	1256	1029	950
125°	762	811	864	812	762	694
135°	583	528	629	530	583	455
145°	504	499	538	502	504	319
155°	461	467	493	470	461	215
165°	450	453	468	455	450	128
175°	456	461	465	462	456	44
180°	461	461	461	461	461	



TEST NUMBER: P1444456
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CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
0°	24616.1	24616.1	24616.1	24616.1	24616.1	24616.1	24616.1	24616.1	24616.1	24616.1	24616.1
2.5°	24710.1	24708.1	24707.8	24706.0	24705.6	24705.6	24704.8	24702.7	24701.5	24698.7	24695.4
5°	24801.8	24800.7	24801.3	24801.5	24799.8	24796.0	24789.9	24782.6	24773.2	24764.5	24756.7
7.5°	24872.7	24874.4	24876.6	24876.2	24870.7	24861.8	24849.4	24842.5	24846.6	24860.0	24890.7
10°	24885.6	24896.2	24900.3	24899.0	24888.3	24880.6	24883.6	24909.6	24961.5	25030.8	25125.5
12.5°	24835.2	24848.2	24847.7	24843.4	24833.0	24843.6	24881.3	24959.0	25070.3	25206.8	25367.1
15°	24693.5	24710.3	24705.6	24700.0	24693.1	24727.8	24803.3	24938.1	25110.0	25302.6	25499.7
17.5°	24418.5	24438.7	24428.9	24422.5	24416.7	24481.8	24611.5	24808.9	25025.4	25243.3	25430.1
20°	23941.3	23954.9	23931.5	23920.5	23929.7	24057.4	24248.3	24500.5	24728.6	24934.6	25062.4
22.5°	23162.7	23179.5	23135.5	23130.3	23184.8	23380.8	23622.4	23904.2	24118.7	24282.0	24331.2
25°	22018.7	22035.2	21982.9	22014.2	22106.7	22373.8	22661.4	22962.9	23145.9	23266.8	23233.5
27.5°	20474.5	20489.7	20440.0	20503.9	20650.1	21001.0	21339.6	21666.7	21829.7	21914.5	21807.1
30°	18527.0	18558.5	18499.8	18589.0	18812.2	19267.7	19655.7	20022.4	20185.0	20249.5	20082.4
32.5°	16214.0	16258.7	16194.1	16326.7	16638.2	17185.3	17626.1	18036.0	18215.7	18289.3	18100.6
35°	13605.1	13669.4	13595.2	13794.3	14178.4	14787.7	15275.8	15733.3	15946.3	16050.7	15860.4
37.5°	10841.3	10902.4	10862.3	11127.9	11549.7	12181.3	12679.5	13173.0	13413.6	13570.2	13420.2
40°	8127.7	8183.7	8214.1	8517.8	8914.6	9509.8	9988.3	10476.7	10745.7	10942.4	10849.8
42.5°	5736.6	5793.0	5896.3	6189.3	6520.2	7013.0	7422.9	7861.3	8118.3	8328.0	8292.4
45°	3910.5	3976.0	4105.4	4345.4	4584.7	4938.2	5239.2	5580.2	5790.1	5982.2	5984.5
47.5°	2740.2	2786.3	2901.9	3065.8	3221.8	3664.3	3682.5	3850.1	3991.2	4134.8	4153.5
50°	2111.9	2139.6	2200.9	2292.2	2380.6	2495.5	2600.7	2722.2	2809.0	2887.7	2906.5
52.5°	1735.8	1753.4	1784.6	1834.1	1885.4	1947.9	2004.2	2070.9	2118.1	2160.2	2169.0
55°	1467.1	1481.7	1528.1	1537.5	1596.2	1607.5	1632.5	1673.1	1700.5	1725.8	1732.1
57.5°	1264.3	1274.9	1284.7	1305.8	1323.9	1350.1	1371.2	1400.4	1417.7	1436.0	1437.5
60°	1104.3	1111.9	1118.9	1133.5	1145.9	1164.1	1178.7	1198.5	1210.9	1224.6	1226.2
62.5°	985.2	990.7	995.3	1005.0	1013.7	1027.8	1039.4	1055.9	1067.5	1078.1	1080.4
65°	900.6	904.6	907.6	914.9	922.6	934.5	945.0	958.4	967.0	975.0	976.8
67.5°	825.5	829.4	832.5	839.1	844.4	853.3	860.4	870.5	876.9	883.4	883.6
70°	739.6	743.2	745.5	751.7	756.0	763.7	769.3	778.5	785.1	792.3	794.0
72.5°	680.1	682.2	685.4	691.1	697.0	705.2	712.7	722.3	730.2	737.7	740.8
75°	634.9	637.3	639.4	644.3	648.4	655.3	660.9	669.7	676.6	684.5	688.5
77.5°	569.5	572.4	574.2	579.1	582.6	589.3	593.4	601.2	606.9	614.2	617.8
80°	490.6	493.3	494.6	499.1	502.0	508.1	512.2	519.7	524.4	531.7	536.0
82.5°	403.2	405.7	406.4	410.7	412.2	417.3	420.3	428.0	433.8	443.3	449.9
85°	301.9	302.8	304.2	303.1	309.3	309.7	316.6	317.8	327.0	329.3	339.7
87.5°	184.5	187.3	188.7	192.9	194.6	198.9	200.2	204.7	207.1	212.2	214.6
90°	94.5	99.9	102.4	108.6	111.0	116.5	118.7	124.8	127.3	133.6	137.7
92.5°	42.4	45.3	48.1	51.4	54.3	57.8	61.0	64.1	67.1	70.4	76.3
95°	48.6	52.0	55.4	58.7	62.1	65.4	68.8	72.1	75.5	78.9	88.6
97.5°	61.3	64.2	67.1	70.0	72.9	75.9	78.8	81.7	84.6	87.4	99.1
100°	80.0	82.4	85.0	87.4	89.8	92.4	94.8	97.2	99.8	102.2	123.8
102.5°	133.6	142.3	151.1	159.8	168.5	177.2	186.0	194.6	203.5	212.2	258.2
105°	227.6	251.3	275.2	298.8	322.6	346.4	370.2	393.7	417.5	441.2	516.1
107.5°	390.5	434.4	478.3	522.3	566.2	610.1	654.0	697.9	741.9	785.6	861.7
110°	723.6	758.8	794.2	829.6	865.0	900.4	935.7	970.9	1006.3	1041.5	1097.1



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CANDELA DISTRIBUTION (continued):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
112.5°	976.2	992.2	1008.3	1024.3	1040.3	1056.2	1072.3	1088.2	1104.3	1120.2	1159.9
115°	1029.3	1035.0	1040.8	1046.4	1052.1	1057.7	1063.4	1068.9	1074.6	1080.0	1107.0
117.5°	998.3	997.5	996.7	995.7	994.7	993.8	992.8	991.7	990.7	989.6	1004.8
120°	929.3	924.5	919.8	914.9	910.1	905.2	900.5	895.5	890.5	885.5	892.1
122.5°	842.5	836.7	831.1	825.2	819.5	813.5	807.8	801.6	795.9	789.9	792.6
125°	761.9	756.1	750.5	744.6	738.7	732.8	726.8	720.8	714.8	708.7	710.3
127.5°	691.8	687.8	683.8	679.6	675.5	671.2	667.0	662.7	658.5	654.0	654.6
130°	646.0	642.5	638.9	635.1	631.4	627.5	623.7	619.7	616.0	611.9	612.7
132.5°	608.3	605.9	603.4	600.8	598.2	595.2	592.6	589.5	586.8	583.9	584.9
135°	582.8	580.5	578.3	575.8	573.4	570.7	568.1	565.3	562.7	560.0	561.3
137.5°	561.0	559.0	557.0	554.7	552.5	549.8	547.6	545.1	542.6	540.0	541.3
140°	541.0	539.3	537.4	535.3	533.4	531.1	528.9	526.7	524.4	522.0	523.5
142.5°	518.8	517.3	516.0	514.4	512.9	511.1	509.4	507.5	505.8	503.9	505.8
145°	504.1	503.0	501.9	500.6	499.2	497.6	496.2	494.5	493.1	491.5	493.6
147.5°	491.2	490.3	489.4	488.5	487.5	486.1	484.8	483.5	482.4	481.1	483.2
150°	479.9	479.0	478.3	477.3	476.2	475.0	473.8	472.8	471.5	470.2	472.3
152.5°	468.2	467.2	466.5	465.5	464.5	463.2	462.4	461.1	460.0	458.8	460.6
155°	460.9	459.9	459.0	458.1	457.1	456.1	455.0	453.9	452.9	451.7	453.3
157.5°	455.9	455.1	454.5	453.6	453.1	452.2	451.4	450.6	449.7	449.0	450.1
160°	453.2	452.5	451.8	451.0	450.4	449.4	448.8	447.9	447.3	446.4	447.4
162.5°	450.7	450.0	449.2	448.5	447.8	447.0	446.2	445.6	444.8	444.0	445.1
165°	450.1	449.7	449.2	448.8	448.4	447.9	447.5	446.9	446.4	445.9	446.6
167.5°	453.5	452.8	452.2	451.6	450.9	450.4	449.6	449.0	448.4	447.7	448.4
170°	454.1	453.6	453.5	453.2	452.8	452.4	452.1	451.8	451.4	451.0	451.7
172.5°	456.2	455.8	455.6	455.4	455.1	454.9	454.6	454.3	454.1	453.7	454.6
175°	455.7	455.4	455.3	455.1	455.1	454.9	454.8	454.6	454.6	454.3	454.8
177.5°	458.7	458.6	458.6	458.5	458.5	458.4	458.3	458.1	458.1	458.1	458.4
180°	461.4	461.4	461.4	461.4	461.4	461.4	461.4	461.4	461.4	461.4	461.4



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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°	24616.1	24616.1	24616.1	24616.1	24616.1	24616.1	24616.1	24616.1	24616.1	24616.1	24616.1
2.5°	24693.1	24690.1	24685.9	24680.8	24676.3	24671.0	24658.8	24655.1	24659.2	24662.0	24667.6
5°	24751.7	24753.5	24754.1	24765.3	24775.0	24799.2	24988.6	25063.8	25122.1	25159.0	25215.1
7.5°	24928.6	24985.6	25041.9	25117.6	25182.9	25271.1	25602.4	25743.5	25843.7	25915.8	26004.5
10°	25228.4	25352.7	25469.1	25605.6	25723.0	25857.4	26165.7	26303.2	26389.9	26453.0	26512.0
12.5°	25530.4	25702.7	25858.4	26010.3	26137.4	26253.8	26362.3	26410.4	26414.4	26416.5	26385.2
15°	25687.6	25852.4	25989.6	26090.1	26164.7	26197.7	26011.0	25913.0	25789.2	25687.2	25519.4
17.5°	25588.4	25687.2	25746.5	25740.7	25709.8	25606.5	25077.6	24786.6	24497.8	24237.5	23896.3
20°	25147.1	25139.6	25088.0	24941.9	24765.9	24492.2	23585.4	23062.2	22556.3	22112.0	21573.1
22.5°	24326.1	24197.0	24016.8	23701.9	23352.1	22874.0	21574.4	20804.8	20100.6	19478.5	18781.6
25°	23136.6	22870.9	22538.6	22038.7	21495.0	20797.7	19195.9	18238.7	17393.1	16659.8	15855.7
27.5°	21614.3	21213.9	20727.1	20035.2	19298.5	18405.1	16629.3	15572.9	14665.2	13879.0	13023.2
30°	19811.9	19291.2	18662.7	17803.8	16915.4	15902.0	14100.9	13030.9	12112.2	11303.5	10446.9
32.5°	17775.1	17165.3	16428.7	15464.8	14503.9	13462.1	11722.7	10687.0	9809.3	9031.2	8256.1
35°	15528.7	14874.7	14095.4	13112.2	12157.2	11144.2	9548.2	8614.3	7839.3	7151.5	6525.6
37.5°	13118.9	12476.8	11736.1	10809.5	9923.9	9006.0	7628.8	6846.3	6195.9	5625.0	5141.7
40°	10613.5	10051.5	9410.6	8609.6	7853.7	7089.3	5958.9	5337.6	4824.4	4389.0	4026.9
42.5°	8138.6	7703.2	7211.7	6578.7	6000.3	5418.2	4548.2	4087.9	3707.8	3394.4	3138.3
45°	5904.8	5613.6	5284.0	4843.8	4443.7	4037.7	3418.4	3095.0	2847.4	2645.3	2474.4
47.5°	4127.8	3958.8	3948.5	3541.8	3248.3	3000.1	2601.1	2396.9	2245.2	2122.8	2014.6
50°	2898.8	2817.1	2715.5	2570.4	2434.2	2293.9	2050.8	1927.4	1838.5	1764.3	1695.9
52.5°	2167.1	2124.6	2070.6	1993.6	1919.8	1840.8	1687.0	1608.4	1580.5	1511.4	1457.2
55°	1730.9	1706.6	1675.8	1630.5	1585.7	1567.7	1435.9	1377.5	1340.5	1313.3	1284.1
57.5°	1437.8	1419.7	1401.4	1370.7	1344.7	1313.3	1243.3	1213.3	1191.4	1175.3	1155.1
60°	1226.4	1215.6	1205.4	1187.4	1173.3	1156.4	1111.9	1095.0	1083.6	1073.8	1061.0
62.5°	1082.5	1076.8	1071.6	1062.0	1054.9	1045.6	1015.3	1007.1	1001.4	996.6	988.8
65°	978.6	974.6	971.6	965.2	961.6	956.3	930.2	924.7	921.2	919.4	914.9
67.5°	884.1	879.9	878.0	873.5	872.0	868.6	847.3	844.3	843.0	843.6	842.0
70°	795.8	794.0	795.0	794.2	796.3	796.9	783.9	783.8	785.2	788.0	788.2
72.5°	742.9	742.9	743.9	744.3	746.3	747.2	736.4	735.9	736.5	738.5	738.6
75°	692.5	693.4	696.1	697.0	699.3	699.7	685.5	683.9	684.0	685.9	685.2
77.5°	622.8	625.8	631.1	633.8	638.2	638.9	623.0	621.1	621.2	623.1	621.4
80°	543.8	549.5	557.8	563.5	570.3	573.0	556.6	552.7	549.0	548.4	545.2
82.5°	459.7	466.8	476.7	481.8	489.1	490.7	463.3	458.1	455.0	455.2	452.2
85°	351.0	356.2	365.3	368.2	372.7	372.3	341.0	327.5	331.0	325.5	329.9
87.5°	220.1	223.2	228.9	229.6	231.7	231.3	199.7	193.5	191.7	191.7	189.5
90°	145.3	149.8	157.2	159.6	165.4	167.4	144.3	143.9	139.5	138.6	133.3
92.5°	82.5	88.4	94.5	100.4	106.5	112.6	115.7	120.7	114.7	108.3	102.4
95°	98.5	108.4	118.2	128.1	138.0	147.8	157.7	167.6	158.4	149.1	139.9
97.5°	110.7	122.4	133.9	145.7	157.3	169.0	180.6	192.3	182.5	172.4	162.5
100°	145.7	167.4	189.1	210.9	232.6	254.3	276.1	297.9	278.8	259.6	240.5
102.5°	304.2	350.5	396.6	442.7	488.8	535.0	581.3	627.5	583.7	539.7	495.9
105°	590.9	665.7	740.6	815.1	890.0	964.8	1039.8	1114.7	1044.6	974.6	904.5
107.5°	937.5	1013.4	1089.2	1165.0	1241.0	1316.8	1393.1	1469.0	1400.7	1332.2	1263.9
110°	1152.5	1207.8	1263.2	1318.6	1374.0	1429.4	1485.3	1540.8	1499.9	1458.7	1417.8



TEST NUMBER: P1444456
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CANDELA DISTRIBUTION (continued):

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
112.5°	1199.5	1239.3	1278.9	1318.4	1357.9	1397.7	1438.1	1477.9	1457.3	1436.7	1416.3
115°	1133.6	1160.6	1187.3	1214.0	1240.9	1267.6	1295.2	1322.3	1315.8	1309.3	1302.9
117.5°	1019.8	1035.0	1050.1	1065.0	1079.9	1095.0	1111.4	1126.6	1127.8	1129.1	1130.5
120°	898.6	905.1	911.5	918.0	924.3	930.7	938.7	945.4	951.1	956.8	962.6
122.5°	795.2	797.8	800.2	802.9	805.3	807.9	812.1	815.1	819.2	823.3	827.3
125°	711.6	713.0	714.3	715.7	717.0	718.4	721.7	723.4	724.0	724.4	724.8
127.5°	655.0	655.5	655.9	656.4	656.6	657.1	659.6	660.5	658.5	656.4	654.2
130°	613.6	614.4	615.1	616.0	616.8	617.7	620.8	622.2	618.2	614.3	610.4
132.5°	585.8	586.9	587.8	589.0	589.9	590.9	594.4	596.0	591.5	586.8	582.4
135°	562.3	563.6	564.8	566.1	567.2	568.6	572.5	574.4	570.2	565.7	561.3
137.5°	542.4	543.7	544.8	546.3	547.4	548.7	552.9	554.9	551.6	548.0	544.7
140°	525.0	526.4	527.9	529.4	530.9	532.6	537.2	539.5	536.8	534.1	531.4
142.5°	507.6	509.7	511.6	513.7	515.7	517.8	523.2	526.1	524.2	522.0	520.2
145°	495.6	498.0	500.2	502.6	504.9	507.3	513.3	516.5	515.4	514.2	512.9
147.5°	484.8	487.1	489.1	491.2	493.4	495.8	501.9	505.0	504.4	503.6	502.9
150°	474.2	476.4	478.5	480.6	483.0	485.3	492.1	495.4	494.9	494.2	493.6
152.5°	462.5	464.4	466.3	468.4	470.3	472.5	480.3	483.6	483.2	482.5	482.0
155°	454.7	456.2	457.6	459.3	460.8	462.6	470.7	473.8	473.5	473.2	472.9
157.5°	451.1	452.1	453.1	454.3	455.5	456.6	464.8	467.9	467.5	467.2	466.9
160°	448.2	449.1	449.8	450.8	451.7	452.6	461.0	463.7	463.5	463.1	462.8
162.5°	446.2	447.5	448.5	449.6	450.7	452.0	460.4	463.6	463.0	462.5	462.0
165°	447.4	448.0	448.7	449.4	450.1	450.9	458.6	461.1	461.0	460.6	460.3
167.5°	449.1	449.9	450.7	451.5	452.2	453.2	460.4	462.8	462.6	462.3	462.1
170°	452.1	452.9	453.5	454.2	454.9	455.7	461.6	463.7	463.4	462.7	462.4
172.5°	455.2	456.1	456.7	457.5	458.1	459.0	464.1	466.0	465.7	465.3	464.8
175°	455.3	455.8	456.4	457.1	457.7	458.2	462.3	463.7	463.6	463.4	463.2
177.5°	458.9	459.2	459.6	460.1	460.6	461.0	463.5	464.4	464.3	464.3	464.2
180°	461.4	461.4	461.4	461.4	461.4	461.4	461.4	461.4	461.4	461.4	461.4



TEST NUMBER: P1444456
 CATALOG NUMBER: EHBR1-30-UNV-TA-L830-UPL40

CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
0°	24616.1	24616.1	24616.1	24616.1	24616.1	24616.1	24616.1	24616.1	24616.1	24616.1	24616.1
2.5°	24668.9	24677.6	24678.8	24688.9	24688.2	24700.2	24698.3	24708.1	24702.3	24710.5	24703.6
5°	25248.3	25300.9	25328.3	25379.6	25395.8	25441.7	25454.7	25496.6	25498.2	25531.5	25523.9
7.5°	26067.5	26144.9	26190.8	26254.3	26286.4	26339.2	26362.5	26401.5	26414.2	26445.2	26447.5
10°	26556.6	26594.2	26620.5	26638.2	26654.3	26661.9	26670.7	26668.4	26670.7	26667.3	26674.8
12.5°	26364.2	26309.3	26273.0	26204.2	26164.3	26088.4	26051.0	25977.9	25951.4	25888.7	25879.6
15°	25389.8	25198.4	25063.1	24866.5	24742.9	24549.4	24436.2	24261.6	24181.9	24043.2	24006.7
17.5°	23613.7	23258.5	22983.5	22630.8	22386.0	22056.4	21849.1	21576.2	21426.8	21206.8	21130.7
20°	21123.8	20598.1	20185.7	19694.4	19342.8	18904.7	18624.3	18270.6	18065.2	17794.9	17685.4
22.5°	18200.5	17546.0	17031.0	16450.5	16026.3	15538.1	15202.1	14819.4	14596.0	14302.4	14172.4
25°	15187.4	14465.7	13893.1	13281.6	12833.4	12343.9	12007.9	11632.0	11400.8	11122.0	10992.8
27.5°	12305.7	11575.2	11021.8	10453.2	10042.1	9600.5	9297.3	8969.0	8763.8	8525.9	8404.4
30°	9762.8	9118.4	8647.4	8175.6	7833.6	7474.9	7223.0	6950.9	6770.9	6567.2	6451.4
32.5°	7690.8	7193.4	6824.7	6450.3	6170.4	5870.6	5652.9	5412.9	5250.3	5068.4	4963.6
35°	6091.0	5704.6	5410.4	5102.3	4861.7	4606.5	4414.6	4207.4	4061.7	3905.0	3814.5
37.5°	4812.5	4505.2	4263.1	4007.1	3809.7	3598.2	3527.0	3289.3	3138.2	3013.1	2926.6
40°	3776.9	3532.5	3332.2	3136.5	2975.4	2815.0	2686.3	2559.3	2461.8	2372.3	2310.5
42.5°	2949.5	2772.4	2626.2	2482.7	2365.2	2248.4	2155.1	2067.6	2001.9	1943.5	1903.6
45°	2344.7	2222.9	2121.3	2020.3	1937.4	1859.4	1796.6	1740.8	1698.3	1663.2	1638.3
47.5°	1926.2	1842.9	1771.1	1703.0	1646.7	1595.6	1553.5	1539.9	1494.2	1463.5	1451.8
50°	1637.0	1586.7	1532.2	1482.0	1444.3	1406.9	1379.7	1353.0	1335.8	1321.7	1317.5
52.5°	1421.2	1382.7	1352.4	1320.6	1295.7	1269.1	1250.3	1232.5	1223.2	1215.8	1214.8
55°	1260.7	1233.8	1213.7	1192.3	1177.5	1161.9	1152.2	1142.8	1138.7	1134.9	1135.2
57.5°	1139.3	1121.3	1108.2	1094.4	1086.4	1078.9	1076.5	1074.0	1075.3	1075.9	1078.0
60°	1050.8	1039.1	1030.9	1023.0	1019.6	1017.2	1019.0	1021.1	1025.4	1028.9	1032.0
62.5°	983.0	976.3	972.3	968.1	967.7	967.9	971.6	975.0	980.5	984.5	987.5
65°	913.2	909.4	908.1	905.3	906.7	907.6	912.0	914.7	920.0	923.2	927.1
67.5°	842.7	841.8	842.6	842.6	845.1	847.2	851.4	854.5	859.1	862.0	865.1
70°	790.6	791.0	792.9	793.2	795.9	797.3	801.0	803.0	807.1	809.6	813.3
72.5°	740.0	739.2	739.6	738.4	739.3	739.0	740.9	742.0	745.4	747.4	751.9
75°	686.0	683.8	683.2	680.8	680.9	679.1	680.0	679.9	682.1	683.0	686.3
77.5°	620.9	617.1	615.2	611.1	611.0	609.5	611.1	612.1	616.2	618.0	621.8
80°	543.0	537.0	534.2	529.5	530.4	530.1	534.0	537.1	542.0	542.9	547.7
82.5°	451.3	445.2	442.3	437.6	438.8	438.8	442.5	443.1	447.4	449.2	454.7
85°	323.2	325.5	319.0	319.5	318.1	320.6	323.2	326.3	329.8	335.7	340.3
87.5°	190.3	189.5	191.7	192.0	195.3	197.1	202.3	205.3	211.3	215.9	224.3
90°	131.3	126.1	125.7	122.5	123.6	120.5	121.7	118.5	120.4	119.1	121.9
92.5°	95.7	89.6	83.1	77.0	70.5	64.6	61.4	58.7	55.5	53.0	49.6
95°	130.8	121.5	112.3	103.1	94.0	84.8	81.4	78.0	74.7	71.3	68.0
97.5°	152.7	142.8	132.9	123.0	113.1	103.2	101.0	98.7	96.5	94.2	92.0
100°	221.3	202.2	183.2	164.0	145.0	125.9	124.1	122.3	120.6	118.8	116.9
102.5°	452.1	408.4	364.7	320.8	277.1	233.3	225.7	218.1	210.5	202.8	195.2
105°	834.3	764.3	694.2	624.1	554.2	484.1	463.2	442.2	421.3	400.4	379.6
107.5°	1195.5	1127.2	1058.9	990.7	922.4	854.1	821.0	788.1	754.9	721.9	689.0
110°	1376.6	1335.6	1294.6	1253.6	1212.7	1171.7	1140.2	1108.8	1077.2	1045.7	1014.3



TEST NUMBER: P1444456
 CATALOG NUMBER: EHBR1-30-UNV-TA-L830-UPL40

CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
112.5°	1395.8	1375.3	1354.9	1334.4	1314.1	1293.6	1278.2	1262.9	1247.6	1232.2	1216.8
115°	1296.3	1289.9	1283.5	1277.1	1270.8	1264.4	1263.2	1262.4	1261.2	1260.2	1259.2
117.5°	1131.7	1133.1	1134.4	1135.9	1137.3	1138.7	1146.9	1155.1	1163.4	1171.8	1180.2
120°	968.2	974.0	979.6	985.4	991.1	997.0	1008.0	1019.1	1030.2	1041.5	1052.9
122.5°	831.2	835.4	839.3	843.5	847.6	851.7	862.6	873.7	884.6	895.8	907.2
125°	725.0	725.4	725.9	726.1	726.5	727.1	736.1	745.2	754.4	763.8	773.0
127.5°	652.0	649.8	647.6	645.6	643.2	641.3	646.7	652.1	657.6	663.2	668.7
130°	606.3	602.3	598.3	594.3	590.2	586.3	588.5	590.8	593.0	595.4	597.8
132.5°	577.6	573.0	568.2	563.5	558.8	554.2	554.3	554.4	554.5	554.8	555.2
135°	556.9	552.6	548.0	543.5	539.0	534.7	533.6	532.5	531.7	530.7	529.9
137.5°	541.1	537.6	534.1	530.7	527.0	523.5	521.9	520.6	519.0	517.9	516.4
140°	528.6	525.9	523.0	520.2	517.4	514.7	513.3	512.2	511.1	510.0	508.9
142.5°	518.0	516.0	514.0	512.0	509.9	507.9	506.7	505.5	504.4	503.4	502.3
145°	511.6	510.3	509.0	507.7	506.5	505.3	504.2	503.4	502.5	501.8	501.1
147.5°	502.3	501.4	500.7	499.9	499.0	498.2	497.7	497.3	496.5	496.2	495.6
150°	492.8	492.1	491.3	490.8	489.9	489.2	488.9	488.7	488.3	488.2	488.0
152.5°	481.2	480.6	479.9	479.3	478.5	477.9	477.6	477.5	477.3	477.2	476.8
155°	472.5	472.1	471.6	471.3	470.7	470.4	469.9	469.5	469.2	468.8	468.4
157.5°	466.6	466.3	465.8	465.5	465.0	464.6	464.2	463.9	463.4	463.1	462.7
160°	462.5	462.2	461.7	461.4	461.0	460.7	460.0	459.5	458.8	458.3	457.6
162.5°	461.3	460.8	460.2	459.6	459.0	458.5	458.1	457.7	457.3	456.9	456.5
165°	459.9	459.5	459.2	458.8	458.6	458.2	457.6	457.0	456.4	455.9	455.1
167.5°	461.7	461.4	461.0	460.8	460.3	460.0	459.5	458.9	458.3	457.7	457.0
170°	462.0	461.3	461.0	460.4	459.8	459.4	458.9	458.2	457.7	457.2	456.6
172.5°	464.4	464.0	463.7	463.3	462.6	462.3	461.9	461.3	460.9	460.3	459.9
175°	463.1	463.0	462.9	462.6	462.5	462.4	462.2	462.1	461.9	461.8	461.5
177.5°	464.2	464.1	464.1	464.0	463.9	463.9	463.6	463.3	463.0	462.7	462.5
180°	461.4	461.4	461.4	461.4	461.4	461.4	461.4	461.4	461.4	461.4	461.4



TEST NUMBER: P1444456
 CATALOG NUMBER: EHBR1-30-UNV-TA-L830-UPL40

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	92.5°	95°	97.5°	100°	102.5°	105°	107.5°
0°	24616.1	24616.1	24616.1	24616.1	24616.1	24616.1	24616.1	24616.1	24616.1	24616.1	24616.1
2.5°	24710.8	24704.5	24707.5	24695.9	24698.7	24684.7	24683.4	24667.6	24666.1	24651.2	24645.7
5°	25547.4	25533.7	25549.2	25525.0	25529.7	25498.2	25495.6	25455.0	25440.9	25390.0	25367.9
7.5°	26466.9	26461.7	26471.2	26451.0	26450.3	26422.2	26410.7	26374.2	26351.5	26298.1	26263.9
10°	26668.4	26673.2	26665.4	26667.3	26656.3	26653.3	26642.1	26634.9	26616.7	26602.8	26582.4
12.5°	25831.9	25836.9	25805.0	25825.3	25809.2	25846.6	25843.6	25887.5	25894.3	25949.9	25971.0
15°	23898.6	23892.6	23831.4	23870.0	23849.3	23931.2	23949.5	24059.7	24118.7	24260.2	24347.1
17.5°	20978.2	20962.4	20876.1	20923.2	20899.3	21020.0	21060.6	21236.8	21346.8	21574.7	21737.2
20°	17496.9	17466.6	17365.7	17420.7	17396.1	17533.3	17591.2	17804.2	17945.9	18247.9	18462.8
22.5°	13972.2	13924.6	13825.7	13877.1	13853.8	13995.9	14071.2	14285.0	14447.4	14757.4	15008.1
25°	10807.2	10764.7	10669.2	10705.1	10696.5	10816.7	10883.6	11085.9	11245.4	11540.7	11780.1
27.5°	8242.9	8198.6	8112.4	8137.8	8129.0	8231.5	8294.7	8463.5	8600.8	8849.4	9059.6
30°	6308.7	6255.3	6182.2	6196.2	6190.2	6273.2	6332.2	6474.4	6592.1	6802.2	6983.3
32.5°	4835.7	4782.0	4714.7	4721.3	4712.5	4777.6	4826.2	4949.9	5052.4	5231.1	5388.7
35°	3699.9	3762.6	3619.0	3709.9	3615.2	3754.3	3704.3	3781.6	3869.8	4020.4	4151.8
37.5°	2844.4	2800.7	2763.8	2759.8	2759.6	2791.9	2829.9	2904.3	2982.0	3094.1	3210.0
40°	2254.0	2223.4	2199.5	2197.7	2199.5	2222.3	2250.4	2302.0	2358.8	2439.4	2524.5
42.5°	1869.5	1849.2	1834.7	1833.7	1838.3	1854.5	1874.1	1904.6	1941.6	1993.9	2052.2
45°	1618.1	1606.7	1598.7	1598.3	1600.4	1608.8	1620.0	1639.1	1662.6	1695.2	1732.1
47.5°	1441.6	1438.9	1433.8	1434.0	1431.8	1435.2	1436.5	1447.2	1459.7	1484.2	1532.5
50°	1313.2	1313.2	1309.7	1309.5	1306.2	1306.1	1303.3	1307.6	1313.4	1328.6	1344.0
52.5°	1211.6	1211.3	1207.5	1206.8	1203.3	1203.1	1200.8	1202.5	1203.2	1210.9	1220.2
55°	1132.3	1129.9	1125.0	1123.4	1122.1	1124.1	1123.1	1123.2	1122.2	1125.5	1128.2
57.5°	1075.3	1072.3	1067.6	1066.2	1065.9	1068.2	1068.3	1067.5	1063.2	1060.3	1056.1
60°	1030.3	1027.2	1022.1	1020.8	1021.6	1024.9	1024.7	1021.9	1015.6	1010.1	1003.5
62.5°	986.0	984.8	982.1	981.9	981.2	981.8	979.4	976.5	970.2	964.3	957.3
65°	926.6	927.2	925.4	925.7	923.3	922.9	919.5	916.7	910.3	905.0	897.7
67.5°	865.0	865.4	863.8	863.8	862.7	862.9	860.7	858.1	852.7	848.4	842.8
70°	814.1	815.4	814.5	814.7	813.3	812.8	809.5	807.0	801.4	797.7	792.7
72.5°	753.3	756.0	755.9	756.6	754.4	753.3	749.4	746.2	741.1	738.2	734.2
75°	687.6	691.2	692.1	693.7	690.6	688.9	684.6	682.1	678.0	676.3	673.7
77.5°	623.5	627.4	631.2	634.6	629.6	625.1	619.7	615.6	609.8	607.5	603.4
80°	551.4	558.5	566.7	573.6	564.6	555.5	546.7	540.1	532.3	529.1	524.0
82.5°	457.5	464.6	469.4	473.9	467.5	460.9	452.3	446.5	438.2	435.1	429.1
85°	347.6	356.4	359.2	361.7	357.6	354.1	346.0	335.2	329.9	321.6	317.3
87.5°	228.7	233.9	234.9	235.8	233.2	231.6	226.3	221.3	212.2	205.6	197.6
90°	119.6	121.1	117.1	116.3	115.1	117.3	114.0	114.1	108.6	107.6	102.9
92.5°	46.9	43.7	40.9	37.9	41.3	43.8	47.1	49.6	52.9	55.5	58.7
95°	64.6	61.3	57.9	54.5	57.2	59.9	62.6	65.3	67.9	70.6	73.3
97.5°	89.7	87.5	85.2	83.0	84.6	86.2	87.7	89.3	90.9	92.5	94.0
100°	115.1	113.3	111.6	109.8	109.8	109.8	109.8	109.8	109.8	109.8	109.8
102.5°	187.5	179.9	172.3	164.7	169.8	175.0	180.1	185.3	190.5	195.7	200.8
105°	358.8	337.9	317.1	296.2	316.3	336.6	356.7	376.9	397.1	417.5	437.6
107.5°	656.0	623.0	590.0	557.1	594.0	630.7	667.5	704.3	741.0	777.8	814.8
110°	982.9	951.5	920.1	888.7	927.8	966.8	1005.8	1044.8	1084.0	1122.9	1162.2



TEST NUMBER: P1444456
 CATALOG NUMBER: EHBR1-30-UNV-TA-L830-UPL40

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	92.5°	95°	97.5°	100°	102.5°	105°	107.5°
112.5°	1201.5	1186.3	1171.1	1155.8	1180.9	1206.0	1231.1	1256.4	1281.6	1306.8	1331.9
115°	1258.3	1257.3	1256.5	1255.6	1267.5	1279.4	1291.3	1303.2	1315.1	1327.0	1339.1
117.5°	1188.5	1196.9	1205.5	1214.0	1217.8	1221.7	1225.5	1229.3	1233.4	1237.3	1241.2
120°	1064.2	1075.3	1086.8	1098.2	1096.6	1095.0	1093.6	1092.0	1090.7	1089.2	1088.1
122.5°	918.4	929.7	941.1	952.4	949.1	945.7	942.4	939.1	936.1	932.8	929.7
125°	782.5	791.9	801.4	811.0	807.6	804.3	801.0	797.9	794.7	791.5	788.6
127.5°	674.6	680.5	686.2	692.2	690.6	689.0	687.8	686.3	685.0	683.8	682.8
130°	600.3	603.0	605.8	608.5	609.0	609.4	610.0	610.6	611.5	612.2	613.2
132.5°	555.7	556.2	556.9	557.6	559.4	561.2	563.2	565.2	567.5	569.5	572.1
135°	529.2	528.7	528.1	527.7	530.5	533.1	535.9	538.8	542.0	545.2	548.3
137.5°	515.5	514.3	513.5	512.5	515.2	517.8	520.7	523.6	526.6	529.8	533.1
140°	508.0	507.1	506.5	505.6	508.4	511.0	513.8	516.7	519.8	523.0	526.1
142.5°	501.4	500.6	499.9	499.3	501.5	504.0	506.8	509.3	512.2	514.8	517.8
145°	500.4	499.7	499.3	498.8	500.5	502.3	504.2	506.2	508.3	510.2	512.7
147.5°	495.2	494.9	494.7	494.4	495.7	497.0	498.4	499.7	501.4	502.9	504.6
150°	488.0	487.7	487.7	487.7	488.6	489.3	490.4	491.1	492.2	493.2	494.5
152.5°	476.9	476.6	476.8	476.7	477.4	478.3	479.2	480.0	481.0	481.8	483.0
155°	468.2	467.9	467.6	467.3	467.6	467.9	468.3	468.5	469.1	469.5	469.9
157.5°	462.5	462.2	462.0	461.6	461.6	461.6	461.7	461.8	462.0	462.0	462.2
160°	457.2	456.6	456.1	455.6	455.9	456.0	456.3	456.4	456.7	457.0	457.3
162.5°	456.2	455.8	455.6	455.2	455.1	454.7	454.5	454.1	453.9	453.7	453.6
165°	454.6	454.0	453.5	452.9	452.9	452.9	452.8	452.7	452.8	452.7	452.8
167.5°	456.6	455.9	455.3	454.8	454.4	453.8	453.6	453.1	452.6	452.2	452.1
170°	456.1	455.5	455.1	454.6	454.4	454.1	454.0	453.8	453.7	453.6	453.6
172.5°	459.5	459.0	458.5	458.1	458.0	457.8	457.7	457.6	457.5	457.5	457.4
175°	461.4	461.2	461.1	461.0	460.8	460.5	460.2	460.0	459.7	459.5	459.3
177.5°	462.1	461.8	461.5	461.3	461.2	461.2	461.2	461.2	461.2	461.1	461.0
180°	461.4	461.4	461.4	461.4	461.4	461.4	461.4	461.4	461.4	461.4	461.4



TEST NUMBER: P1444456
 CATALOG NUMBER: EHBR1-30-UNV-TA-L830-UPL40

CANDELA DISTRIBUTION (continued):

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°
0°	24616.1	24616.1	24616.1	24616.1	24616.1	24616.1	24616.1	24616.1	24616.1	24616.1	24616.1
2.5°	24629.6	24623.2	24606.1	24597.7	24582.0	24574.0	24561.7	24553.8	24543.8	24536.4	24532.6
5°	25312.0	25280.6	25217.4	25178.5	25110.4	25065.6	24997.9	24948.2	24878.3	24826.8	24760.8
7.5°	26199.9	26151.6	26070.8	26009.4	25914.1	25841.2	25734.2	25648.6	25530.4	25432.2	25311.5
10°	26561.4	26533.2	26496.9	26457.4	26404.6	26352.8	26279.7	26205.3	26106.1	26007.3	25878.4
12.5°	26027.1	26053.7	26106.1	26130.5	26170.5	26184.1	26202.5	26193.8	26177.6	26137.4	26078.8
15°	24514.0	24625.0	24800.1	24921.2	25091.0	25210.2	25367.9	25469.5	25586.5	25656.4	25722.8
17.5°	22025.1	22239.5	22548.6	22795.2	23126.3	23395.4	23725.2	23984.3	24283.4	24513.0	24757.3
20°	18837.2	19137.4	19564.1	19926.5	20406.2	20812.9	21334.1	21770.6	22279.8	22704.3	23162.5
22.5°	15406.1	15759.3	16248.2	16685.2	17258.1	17769.7	18422.6	18999.8	19688.3	20304.9	20987.2
25°	12169.3	12515.4	13013.4	13466.0	14084.4	14648.0	15361.3	16023.4	16822.4	17567.3	18422.6
27.5°	9393.5	9700.9	10138.7	10546.1	11112.5	11665.8	12389.7	13095.8	13948.3	14748.9	15670.6
30°	7254.4	7503.9	7854.7	8182.3	8637.0	9089.5	9734.4	10387.4	11235.6	12065.3	13010.2
32.5°	5621.9	5834.7	6127.5	6393.5	6743.8	7085.0	7559.9	8081.7	8825.8	9620.5	10534.1
35°	4352.0	4534.0	4783.2	5012.3	5300.5	5571.4	5925.7	6298.1	6866.0	7534.4	8352.1
37.5°	3469.7	3543.9	3721.7	3909.4	4148.8	4371.3	4648.5	4924.0	5330.2	5857.6	6525.6
40°	2638.6	2756.5	2901.2	3049.1	3230.2	3408.8	3712.9	3859.3	4126.8	4505.4	5023.9
42.5°	2129.0	2211.9	2313.8	2416.6	2542.9	2667.2	2821.0	2977.7	3177.6	3434.1	3802.9
45°	1781.6	1835.7	1901.3	1969.8	2052.8	2137.6	2240.6	2348.1	2483.7	2641.3	2865.3
47.5°	1549.5	1579.4	1622.3	1669.0	1725.9	1784.6	1851.6	1920.2	2004.4	2097.9	2225.3
50°	1368.3	1393.3	1426.6	1457.9	1497.0	1557.3	1583.9	1621.7	1672.3	1727.4	1798.7
52.5°	1237.3	1253.9	1274.8	1292.8	1317.6	1340.1	1369.7	1395.7	1430.7	1463.8	1509.9
55°	1135.2	1141.2	1153.1	1164.6	1181.8	1197.2	1217.4	1234.5	1256.9	1276.6	1305.7
57.5°	1056.3	1056.9	1062.4	1068.4	1079.5	1089.1	1103.1	1114.3	1129.8	1142.4	1159.8
60°	999.7	996.7	997.8	999.8	1006.1	1012.4	1021.3	1028.6	1038.3	1045.5	1055.3
62.5°	952.5	947.8	946.7	946.2	949.3	951.5	956.4	959.9	965.5	968.6	973.8
65°	893.0	887.4	885.2	882.7	883.6	882.8	884.6	884.7	887.5	888.2	891.2
67.5°	838.9	834.3	831.5	828.1	826.5	824.0	822.9	820.6	820.2	818.1	817.7
70°	789.6	785.1	782.7	779.5	777.9	774.7	772.6	768.6	766.2	762.5	760.4
72.5°	732.7	730.1	729.4	727.2	726.6	724.8	724.0	721.2	719.5	716.3	714.5
75°	673.1	671.0	670.8	668.6	668.4	666.3	665.7	662.7	661.1	657.9	656.5
77.5°	602.1	599.0	598.1	595.6	596.2	595.1	596.0	593.7	592.7	589.6	588.5
80°	522.2	518.2	516.5	513.1	514.1	512.6	514.1	513.9	515.1	512.6	512.1
82.5°	427.5	423.1	422.3	419.9	421.5	421.7	425.1	423.2	424.0	421.6	422.5
85°	311.1	307.8	303.2	302.7	299.7	302.7	298.8	301.4	297.1	300.1	296.1
87.5°	192.9	186.1	182.6	177.7	175.9	171.2	169.4	166.0	166.9	165.4	166.3
90°	103.3	99.3	101.1	99.4	102.0	100.9	104.4	104.5	108.5	108.6	112.8
92.5°	61.4	64.3	69.6	75.2	80.5	85.8	91.1	96.8	102.0	107.5	112.8
95°	76.0	78.7	85.9	93.0	100.2	107.4	114.7	121.9	129.1	136.2	143.4
97.5°	95.6	97.2	104.4	111.6	118.8	126.0	133.1	140.5	147.7	154.8	162.1
100°	109.8	109.9	130.3	150.7	171.0	191.6	212.0	232.4	252.9	273.3	293.8
102.5°	206.0	211.1	262.7	314.4	366.0	417.6	469.2	520.9	572.5	624.2	675.9
105°	457.9	478.1	556.8	635.7	714.3	793.2	872.0	950.9	1029.7	1108.6	1187.4
107.5°	851.6	888.5	959.7	1030.8	1101.9	1173.2	1244.4	1315.6	1386.8	1458.1	1529.5
110°	1201.1	1240.3	1288.0	1335.7	1383.4	1431.0	1478.8	1526.5	1574.3	1622.0	1669.9



TEST NUMBER: P1444456
 CATALOG NUMBER: EHBR1-30-UNV-TA-L830-UPL40

CANDELA DISTRIBUTION (continued):

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°
112.5°	1357.1	1382.4	1410.1	1437.9	1465.8	1493.6	1521.3	1549.1	1577.1	1605.1	1633.0
115°	1351.2	1363.2	1373.9	1384.7	1395.5	1406.4	1417.2	1428.2	1439.3	1450.1	1461.2
117.5°	1245.2	1249.4	1250.9	1252.7	1254.3	1256.1	1257.9	1259.7	1261.6	1263.5	1265.2
120°	1086.7	1085.4	1083.5	1081.6	1079.7	1078.1	1076.4	1074.7	1073.1	1071.5	1069.7
122.5°	926.6	923.7	921.8	920.1	918.4	916.9	915.3	913.9	912.3	910.8	909.2
125°	785.6	782.7	784.2	785.7	787.3	789.0	790.5	792.3	794.0	795.6	797.4
127.5°	681.5	680.6	684.6	688.7	692.8	697.0	701.1	705.3	709.5	713.9	718.0
130°	614.2	615.3	620.5	625.8	631.1	636.5	641.8	647.3	652.5	657.9	663.3
132.5°	574.4	577.0	581.8	587.0	592.1	597.3	602.4	607.6	612.8	618.1	623.0
135°	551.7	555.1	559.7	564.4	569.1	573.8	578.4	583.3	587.9	592.6	597.2
137.5°	536.3	539.7	543.5	547.1	550.8	554.7	558.6	562.4	566.0	569.8	573.5
140°	529.4	532.8	534.8	537.1	539.2	541.3	543.3	545.5	547.5	549.8	551.8
142.5°	520.8	524.0	525.1	526.5	527.8	529.4	530.7	532.1	533.5	534.7	535.9
145°	514.8	517.2	517.2	517.3	517.5	517.7	517.7	517.8	517.8	517.9	517.9
147.5°	506.4	508.2	507.8	507.7	507.4	507.1	506.9	506.7	506.2	506.0	505.7
150°	495.5	496.8	496.1	495.6	494.9	494.4	493.6	493.2	492.4	492.0	491.2
152.5°	483.9	485.0	484.1	483.6	482.8	482.1	481.3	480.7	479.9	479.2	478.6
155°	470.3	470.9	470.4	470.0	469.7	469.3	468.8	468.6	468.4	468.0	467.7
157.5°	462.4	462.5	462.3	462.0	461.7	461.5	461.3	461.1	461.0	461.0	461.0
160°	457.5	457.9	457.6	457.3	457.1	456.8	456.6	456.6	456.5	456.6	456.6
162.5°	453.4	453.3	453.0	452.7	452.5	452.4	452.2	452.3	452.2	452.2	452.3
165°	453.0	453.2	452.5	452.2	451.9	451.5	451.1	450.8	450.7	450.6	450.4
167.5°	451.7	451.5	451.5	451.6	451.6	451.7	451.8	452.1	452.2	452.6	452.6
170°	453.6	453.6	453.4	453.2	453.0	452.9	452.7	452.6	452.5	452.4	452.3
172.5°	457.4	457.4	456.9	456.5	456.1	455.7	455.2	454.9	454.5	454.1	453.6
175°	458.9	458.7	458.5	458.2	458.1	457.7	457.5	457.0	456.8	456.6	456.4
177.5°	461.0	460.8	460.7	460.7	460.6	460.5	460.5	460.4	460.4	460.4	460.2
180°	461.4	461.4	461.4	461.4	461.4	461.4	461.4	461.4	461.4	461.4	461.4



TEST NUMBER: P1444456
 CATALOG NUMBER: EHBR1-30-UNV-TA-L830-UPL40

CANDELA DISTRIBUTION (continued):

	137.5°	140°	142.5°	145°	147.5°	150°	152.5°	155°	157.5°	160°	162.5°
0°	24616.1	24616.1	24616.1	24616.1	24616.1	24616.1	24616.1	24616.1	24616.1	24616.1	24616.1
2.5°	24527.6	24527.3	24525.0	24526.1	24526.6	24528.3	24530.4	24532.6	24533.1	24534.7	24535.1
5°	24711.2	24650.5	24605.7	24556.3	24519.2	24485.8	24463.6	24445.9	24439.0	24440.7	24444.8
7.5°	25209.0	25083.8	24980.3	24862.9	24764.9	24661.1	24575.1	24493.3	24433.8	24389.4	24364.5
10°	25755.2	25602.6	25456.7	25286.6	25125.3	24953.2	24797.2	24640.2	24509.4	24395.6	24312.2
12.5°	25997.6	25889.7	25763.5	25603.1	25430.5	25231.8	25031.3	24816.2	24616.2	24430.6	24280.9
15°	25740.9	25741.1	25695.1	25618.1	25498.2	25339.5	25148.4	24924.2	24688.3	24447.5	24227.6
17.5°	24926.3	25080.0	25165.4	25219.6	25202.9	25144.5	25022.9	24850.7	24630.8	24374.3	24105.9
20°	23527.2	23889.8	24148.3	24380.7	24511.0	24597.5	24588.9	24518.8	24362.2	24144.1	23864.6
22.5°	21567.4	22175.9	22656.1	23103.8	23417.8	23673.3	23794.7	23846.3	23775.3	23623.4	23361.0
25°	19187.1	20014.4	20720.5	21405.7	21919.6	22361.4	22626.9	22813.9	22828.8	22749.4	22515.2
27.5°	16542.0	17518.6	18412.2	19322.9	20045.8	20680.8	21097.4	21402.4	21499.2	21486.5	21273.9
30°	13900.4	14925.6	15910.7	16972.5	17867.0	18678.3	19228.7	19641.1	19800.1	19830.5	19625.9
32.5°	11405.6	12416.6	13398.9	14509.1	15493.4	16423.1	17073.4	17563.4	17748.2	17791.7	17567.3
35°	9141.4	10074.2	11007.6	12083.6	13062.2	14025.1	14710.3	15223.2	15395.8	15424.9	15165.2
37.5°	7178.0	7972.7	8786.1	9751.5	10650.2	11554.5	12205.5	12687.5	12813.2	12805.5	12511.5
40°	5524.8	6142.7	6796.2	7591.0	8338.1	9102.6	9652.3	10050.8	10116.8	10067.9	9759.2
42.5°	4154.3	4600.6	5074.4	5667.7	6222.1	6794.1	7194.1	7490.0	7499.4	7422.0	7144.8
45°	3095.0	3530.4	3729.0	4087.7	4444.8	4825.3	5069.5	5252.2	5223.9	5155.8	4945.3
47.5°	2359.4	2526.7	2704.2	2926.6	3134.6	3566.2	3534.3	3827.8	3616.4	3760.5	3443.2
50°	1873.6	1967.1	2062.7	2180.8	2289.4	2402.3	2472.8	2525.5	2518.6	2496.0	2435.2
52.5°	1594.0	1622.8	1670.0	1737.1	1797.8	1858.8	1899.0	1931.6	1932.2	1923.2	1892.3
55°	1332.2	1368.9	1402.7	1446.7	1521.3	1532.8	1590.4	1578.7	1583.3	1567.3	1583.7
57.5°	1174.6	1195.9	1215.0	1241.1	1262.7	1287.9	1302.8	1317.1	1315.7	1312.6	1297.0
60°	1062.9	1074.7	1085.3	1100.5	1112.3	1126.6	1133.4	1140.7	1138.4	1133.0	1119.1
62.5°	976.8	984.2	990.2	1000.0	1007.2	1016.1	1019.7	1022.8	1019.7	1014.6	1002.4
65°	891.8	896.6	900.5	907.9	912.9	920.5	923.5	926.4	923.6	919.7	910.3
67.5°	815.2	815.7	815.3	818.3	819.9	824.5	825.8	828.0	824.6	821.2	813.3
70°	757.1	755.9	754.5	755.6	755.9	758.1	758.5	758.1	754.2	748.3	739.7
72.5°	711.7	711.1	709.9	711.0	711.0	712.9	712.4	711.3	706.5	700.8	692.2
75°	653.3	652.9	650.6	650.7	649.0	649.5	647.2	645.9	640.4	635.7	628.1
77.5°	585.0	583.9	580.7	579.4	576.0	574.6	570.1	567.9	562.4	558.6	552.0
80°	508.7	507.5	503.4	501.1	495.6	492.1	485.6	481.8	475.6	471.8	465.5
82.5°	420.5	421.0	416.8	414.0	406.2	400.2	391.4	386.7	379.7	376.1	369.4
85°	299.1	294.8	297.0	296.8	292.0	286.7	279.6	274.6	268.7	265.3	260.7
87.5°	164.0	165.0	163.8	162.8	159.3	156.7	151.2	148.3	144.0	141.8	138.4
90°	105.2	101.8	94.4	91.1	83.8	79.1	71.2	67.1	59.6	57.6	53.2
92.5°	106.7	100.7	94.8	88.5	82.7	76.6	70.5	64.5	58.5	56.2	54.4
95°	134.7	126.0	117.3	108.5	99.8	91.0	82.3	73.5	64.8	63.0	61.3
97.5°	151.8	141.5	131.2	121.0	110.6	100.3	90.1	79.8	69.5	68.4	67.3
100°	270.1	246.3	222.6	198.8	175.1	151.3	127.7	103.9	80.2	78.9	77.5
102.5°	618.3	560.7	503.2	445.7	388.2	330.6	273.1	215.3	157.8	149.5	141.3
105°	1100.3	1013.1	926.1	838.9	751.8	664.6	577.6	490.3	403.2	375.2	347.2
107.5°	1447.6	1365.6	1283.8	1201.9	1119.9	1038.2	956.0	874.0	792.1	742.8	693.5
110°	1604.8	1539.8	1474.8	1409.7	1344.8	1279.7	1214.6	1149.6	1084.5	1042.0	999.7



TEST NUMBER: P1444456
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CANDELA DISTRIBUTION (continued):

	137.5°	140°	142.5°	145°	147.5°	150°	152.5°	155°	157.5°	160°	162.5°
112.5°	1585.4	1537.6	1490.1	1442.3	1394.7	1346.9	1299.2	1251.3	1203.6	1177.8	1152.0
115°	1432.4	1403.6	1374.9	1346.1	1317.3	1288.5	1259.8	1230.7	1201.9	1188.3	1174.6
117.5°	1250.6	1235.8	1221.2	1206.3	1191.5	1176.6	1161.9	1147.0	1132.1	1127.3	1122.5
120°	1065.4	1060.8	1056.1	1051.5	1047.0	1042.3	1037.6	1032.9	1028.1	1028.6	1029.1
122.5°	910.8	912.3	913.9	915.3	916.9	918.3	919.8	921.1	922.6	926.0	929.5
125°	801.4	805.5	809.6	813.6	817.6	821.5	825.6	829.5	833.6	836.9	840.6
127.5°	722.7	727.1	731.8	736.3	740.8	745.2	749.8	754.1	758.7	761.8	765.1
130°	667.3	671.1	675.2	678.9	682.9	686.7	690.6	694.5	698.4	700.8	703.2
132.5°	626.6	630.1	633.6	636.9	640.5	643.9	647.4	650.8	654.4	656.1	657.9
135°	599.9	602.3	604.8	607.3	610.1	612.5	615.1	617.7	620.4	621.4	622.6
137.5°	575.5	577.5	579.6	581.7	583.9	585.9	588.1	590.2	592.6	592.8	593.4
140°	554.0	556.2	558.4	560.6	563.0	565.1	567.6	569.9	572.4	572.7	573.3
142.5°	537.7	539.3	541.0	542.7	544.4	546.1	548.1	550.0	552.0	552.4	552.8
145°	520.1	522.0	524.2	526.2	528.2	530.5	532.9	535.1	537.6	537.7	538.0
147.5°	507.4	509.2	511.1	512.8	514.7	516.5	518.7	520.7	522.9	523.0	523.2
150°	493.3	495.1	497.0	498.9	501.0	503.2	505.4	507.6	510.1	510.6	511.1
152.5°	480.6	482.7	484.8	487.1	489.3	491.7	494.1	496.5	499.1	499.5	500.0
155°	469.9	471.8	474.1	476.3	478.7	480.8	483.2	485.6	488.0	488.8	489.3
157.5°	463.0	464.8	466.8	468.8	470.8	472.9	475.0	477.1	479.3	479.9	480.4
160°	458.2	459.9	461.7	463.5	465.3	467.0	468.9	470.8	472.7	473.2	473.8
162.5°	454.0	455.8	457.6	459.1	461.0	462.8	464.7	466.5	468.4	468.8	469.3
165°	451.7	452.9	454.2	455.3	456.7	457.9	459.4	460.6	462.1	462.5	463.3
167.5°	453.7	454.6	455.5	456.5	457.7	458.6	459.7	460.7	461.8	462.3	462.9
170°	453.3	454.1	455.0	455.9	456.9	457.9	458.8	459.6	460.8	461.2	461.9
172.5°	454.3	454.8	455.4	456.0	456.6	457.2	457.9	458.5	459.2	459.9	460.6
175°	456.7	457.0	457.3	457.6	457.9	458.2	458.6	459.0	459.3	459.8	460.4
177.5°	460.4	460.7	460.9	461.0	461.5	461.7	462.0	462.3	462.5	463.2	464.0
180°	461.4	461.4	461.4	461.4	461.4	461.4	461.4	461.4	461.4	461.4	461.4



TEST NUMBER: P1444456
 CATALOG NUMBER: EHBR1-30-UNV-TA-L830-UPL40

CANDELA DISTRIBUTION (continued):

	165°	167.5°	170°	172.5°	175°	177.5°	180°	182.5°	185°	187.5°	190°
0°	24616.1	24616.1	24616.1	24616.1	24616.1	24616.1	24616.1	24616.1	24616.1	24616.1	24616.1
2.5°	24534.3	24534.1	24533.2	24532.1	24531.0	24531.7	24532.8	24535.6	24540.6	24547.7	24556.9
5°	24448.2	24453.3	24456.1	24456.4	24453.8	24452.3	24454.7	24461.4	24475.0	24497.8	24528.7
7.5°	24357.9	24364.1	24373.5	24380.7	24382.1	24380.3	24380.7	24391.2	24416.3	24460.7	24523.1
10°	24261.4	24243.1	24252.8	24270.5	24284.6	24287.1	24288.9	24301.3	24338.0	24405.1	24505.2
12.5°	24172.4	24114.4	24103.2	24119.1	24140.5	24147.3	24145.5	24150.8	24193.8	24282.6	24422.2
15°	24055.2	23946.0	23908.7	23912.9	23939.2	23948.7	23941.8	23931.2	23973.1	24081.6	24262.1
17.5°	23865.7	23689.6	23621.0	23618.0	23648.8	23657.1	23640.1	23607.2	23648.4	23783.9	24008.0
20°	23577.5	23317.6	23188.4	23167.9	23201.3	23191.6	23157.8	23108.1	23162.3	23326.9	23593.4
22.5°	23059.4	22730.1	22509.4	22438.2	22478.3	22451.5	22402.1	22338.8	22410.8	22597.8	22894.7
25°	22212.8	21832.2	21530.2	21360.6	21392.6	21344.7	21290.9	21214.1	21299.9	21514.6	21841.4
27.5°	20968.4	20528.9	20154.4	19873.9	19884.2	19821.4	19759.5	19660.1	19767.3	20021.3	20389.9
30°	19313.7	18805.1	18349.1	17967.8	17933.7	17872.8	17809.4	17679.0	17813.0	18117.2	18547.9
32.5°	17235.6	16670.9	16144.1	15662.0	15571.0	15511.6	15455.1	15305.0	15480.5	15835.2	16330.0
35°	14805.4	14203.9	13632.7	13082.0	12931.4	12872.0	12822.6	12678.7	12897.8	13283.7	13818.1
37.5°	12138.0	11523.5	10956.4	10391.7	10178.7	10098.2	10062.3	9968.1	10220.9	10602.6	11139.2
40°	9399.5	8828.1	8319.8	7821.0	7578.3	7455.0	7436.2	7419.0	7663.4	7994.6	8481.6
42.5°	6837.8	6376.8	5984.8	5603.6	5383.5	5215.2	5215.1	5266.3	5486.3	5734.3	6110.0
45°	4729.9	4420.5	4170.8	3916.0	3984.1	3648.6	3845.8	3744.5	3853.2	4013.2	4257.4
47.5°	3251.3	3082.5	2945.3	2802.9	2699.2	2600.1	2608.8	2672.7	2775.1	2870.0	2997.1
50°	2369.7	2283.7	2213.8	2139.9	2088.3	2044.6	2047.1	2074.7	2128.6	2178.6	2245.1
52.5°	1856.8	1809.3	1771.4	1730.6	1703.4	1681.8	1682.9	1696.3	1725.4	1754.0	1792.1
55°	1530.5	1524.8	1475.4	1438.7	1424.7	1410.1	1412.7	1418.1	1437.8	1454.6	1479.8
57.5°	1282.5	1260.3	1245.5	1226.2	1217.3	1207.1	1209.5	1211.4	1224.7	1235.9	1254.1
60°	1107.5	1091.7	1081.2	1068.1	1062.3	1055.8	1057.3	1058.5	1066.9	1074.2	1087.2
62.5°	991.1	977.1	968.0	957.8	953.8	949.4	950.4	950.7	956.0	961.3	971.3
65°	901.9	890.8	883.2	874.4	870.1	865.6	866.1	866.1	870.5	874.4	881.8
67.5°	807.5	799.2	794.2	787.3	784.4	779.7	779.6	778.2	781.1	782.6	787.7
70°	731.9	723.3	717.1	710.4	706.7	702.6	702.7	702.8	706.2	709.7	716.2
72.5°	685.0	677.0	671.3	665.5	662.1	658.6	657.9	657.6	660.0	662.0	666.3
75°	623.1	616.6	613.4	607.8	605.1	601.2	600.5	598.7	600.0	600.3	603.5
77.5°	548.0	541.8	539.2	533.6	531.3	526.9	526.5	524.5	525.4	524.7	527.2
80°	462.3	456.7	455.2	450.7	449.6	445.5	444.8	442.4	443.1	441.2	442.1
82.5°	366.6	361.6	360.4	356.2	356.2	352.5	352.3	348.5	348.5	345.4	340.3
85°	258.3	254.5	253.0	249.5	248.5	245.5	243.9	240.4	239.1	236.8	236.1
87.5°	136.3	133.9	131.8	130.2	127.2	121.8	121.3	117.6	117.8	115.2	115.4
90°	51.7	47.7	46.2	42.4	40.8	37.8	36.3	37.3	38.7	39.6	41.2
92.5°	52.4	50.4	48.3	46.4	44.3	42.3	40.3	42.3	44.3	46.4	48.3
95°	59.5	57.7	55.8	54.0	52.3	50.5	48.7	50.5	52.3	54.1	55.9
97.5°	66.1	65.0	63.9	62.8	61.6	60.5	59.4	60.6	61.7	62.9	64.0
100°	76.2	74.8	73.4	72.1	70.8	69.4	68.1	69.6	71.0	72.3	73.6
102.5°	133.0	124.8	116.4	108.2	99.9	91.6	83.3	91.6	99.9	108.3	116.5
105°	319.1	291.2	263.2	235.2	207.1	179.1	151.1	179.2	207.2	235.3	263.4
107.5°	644.3	595.1	545.7	496.5	447.1	397.8	348.5	397.9	447.3	496.5	545.9
110°	957.0	914.5	872.1	829.5	786.9	744.4	701.8	744.5	787.1	829.7	872.4



TEST NUMBER: P1444456
 CATALOG NUMBER: EHBR1-30-UNV-TA-L830-UPL40

CANDELA DISTRIBUTION (continued):

	165°	167.5°	170°	172.5°	175°	177.5°	180°	182.5°	185°	187.5°	190°
112.5°	1126.1	1100.3	1074.3	1048.5	1022.5	996.7	970.6	996.8	1022.9	1048.9	1074.9
115°	1161.0	1147.2	1133.6	1119.8	1106.1	1092.3	1078.4	1092.6	1106.5	1120.4	1134.4
117.5°	1117.6	1112.8	1107.8	1102.9	1097.9	1093.0	1088.0	1093.2	1098.4	1103.7	1108.7
120°	1029.3	1029.9	1030.2	1030.5	1030.8	1031.1	1031.3	1031.5	1031.5	1031.5	1031.4
122.5°	932.9	936.2	939.6	943.0	946.3	949.5	952.6	949.9	947.0	944.2	941.1
125°	843.9	847.5	851.0	854.5	857.7	861.2	864.2	861.7	858.8	855.9	852.8
127.5°	768.2	771.3	774.4	777.6	780.4	783.3	786.0	783.8	781.3	778.9	776.3
130°	705.3	707.9	710.0	712.3	714.2	716.3	718.2	716.9	715.3	714.0	712.1
132.5°	659.5	661.2	662.9	664.5	665.9	667.4	668.5	668.0	667.1	666.3	665.2
135°	623.7	624.8	625.7	626.9	627.6	628.4	628.9	629.1	628.8	628.6	628.1
137.5°	593.8	594.3	594.7	594.9	595.1	595.2	595.1	595.8	596.3	597.0	597.2
140°	573.7	574.3	574.6	574.9	575.2	575.4	575.2	576.1	576.5	576.9	577.1
142.5°	553.4	553.9	554.2	554.5	554.7	554.9	554.8	555.6	556.0	556.4	556.7
145°	538.2	538.4	538.4	538.6	538.5	538.4	538.0	539.1	539.7	540.4	540.9
147.5°	523.3	523.6	523.4	523.5	523.4	523.3	523.1	523.9	524.7	525.3	525.9
150°	511.7	512.3	512.7	513.0	513.4	513.6	513.6	514.2	514.5	514.8	514.9
152.5°	500.5	501.0	501.3	501.7	502.0	502.1	502.2	502.6	503.2	503.6	503.8
155°	489.9	490.6	491.1	491.7	492.1	492.5	492.8	493.2	493.5	493.6	493.8
157.5°	480.9	481.6	482.0	482.6	483.0	483.5	483.9	484.3	484.6	484.9	485.1
160°	474.2	474.8	475.2	475.8	476.2	476.7	477.1	477.4	477.8	478.1	478.5
162.5°	469.8	470.3	470.6	471.2	471.6	472.1	472.5	472.9	473.2	473.6	473.9
165°	464.0	464.7	465.3	466.0	466.7	467.4	467.9	468.1	468.1	468.3	468.3
167.5°	463.5	464.2	464.7	465.5	465.9	466.7	467.2	467.4	467.3	467.4	467.4
170°	462.3	462.9	463.5	464.0	464.6	465.3	465.6	465.7	465.7	465.8	465.8
172.5°	461.1	462.0	462.6	463.5	464.0	464.7	465.4	465.3	465.0	464.8	464.4
175°	460.9	461.6	462.2	462.8	463.3	464.0	464.6	464.2	464.0	463.8	463.5
177.5°	464.8	465.6	466.4	467.0	467.9	468.5	469.3	468.6	468.1	467.4	466.8
180°	461.4	461.4	461.4	461.4	461.4	461.4	461.4	461.4	461.4	461.4	461.4



TEST NUMBER: P1444456
 CATALOG NUMBER: EHBR1-30-UNV-TA-L830-UPL40

CANDELA DISTRIBUTION (continued):

	192.5°	195°	197.5°	200°	202.5°	205°	207.5°	210°	212.5°	215°	217.5°
0°	24616.1	24616.1	24616.1	24616.1	24616.1	24616.1	24616.1	24616.1	24616.1	24616.1	24616.1
2.5°	24570.1	24582.4	24601.2	24618.2	24643.9	24664.1	24694.5	24717.6	24751.9	24774.2	24811.5
5°	24572.3	24620.4	24683.6	24745.2	24819.4	24886.8	24970.4	25041.7	25125.8	25194.4	25280.4
7.5°	24607.1	24699.7	24810.8	24922.8	25049.4	25167.9	25301.3	25422.1	25554.1	25665.8	25787.9
10°	24632.6	24775.7	24939.4	25104.2	25277.6	25438.7	25601.4	25742.0	25873.3	25981.4	26076.9
12.5°	24597.9	24794.9	25005.0	25207.9	25400.7	25567.5	25707.4	25815.6	25890.2	25940.8	25952.6
15°	24479.8	24716.7	24945.2	25147.3	25307.3	25430.7	25494.6	25524.6	25492.4	25439.1	25322.0
17.5°	24259.1	24509.1	24713.3	24872.7	24957.3	24990.7	24937.8	24845.8	24665.9	24466.2	24177.8
20°	23854.5	24087.4	24235.6	24322.5	24299.8	24216.2	24016.4	23773.6	23414.3	23031.6	22526.4
22.5°	23144.8	23348.4	23427.4	23433.8	23295.8	23086.3	22726.0	22309.4	21742.8	21153.7	20429.2
25°	22079.5	22257.9	22270.3	22200.3	21947.7	21608.2	21079.0	20489.9	19719.9	18934.9	18027.1
27.5°	20634.8	20805.8	20763.9	20633.3	20282.6	19828.3	19150.8	18389.7	17440.4	16513.2	15509.0
30°	18818.7	19001.6	18952.4	18784.8	18367.6	17830.7	17033.6	16149.1	15095.3	14105.1	13087.4
32.5°	16645.3	16876.6	16842.6	16683.3	16248.0	15673.4	14808.4	13870.4	12792.2	11816.4	10826.5
35°	14174.9	14455.8	14470.3	14366.1	13962.0	13394.1	12540.0	11632.1	10599.3	9678.6	8764.1
37.5°	11513.5	11839.1	11905.9	11877.7	11542.9	11041.5	10263.4	9448.9	8534.0	7727.0	6944.9
40°	8837.3	9166.8	9281.1	9315.0	9067.9	8679.6	8040.9	7383.5	6637.6	5983.8	5362.8
42.5°	6396.7	6688.9	6799.3	6868.8	6714.5	6455.6	5989.7	5512.3	4965.9	4494.2	4042.1
45°	4442.6	4649.3	4733.3	4803.3	4719.2	4573.2	4279.0	3980.4	3619.6	3311.5	3019.8
47.5°	3106.1	3220.0	3275.5	3309.5	3276.9	3200.7	3040.7	2867.6	2664.0	2484.0	2310.8
50°	2302.2	2362.9	2392.0	2411.6	2387.9	2345.5	2258.9	2164.7	2052.9	1950.9	1851.1
52.5°	1824.5	1859.3	1876.5	1887.1	1873.5	1847.6	1797.2	1741.3	1674.3	1611.2	1578.1
55°	1537.0	1535.3	1575.1	1555.9	1575.1	1532.1	1523.1	1461.7	1406.0	1366.8	1324.4
57.5°	1267.6	1285.6	1293.3	1301.8	1296.3	1288.4	1267.0	1245.0	1215.7	1191.1	1164.9
60°	1097.3	1112.1	1120.5	1129.0	1128.5	1125.5	1113.1	1100.0	1081.6	1066.9	1051.1
62.5°	979.9	992.7	1001.1	1009.2	1010.0	1008.7	999.4	990.2	977.7	968.5	957.6
65°	887.5	896.6	902.2	908.7	908.4	906.6	898.1	890.6	880.3	873.9	865.9
67.5°	791.0	797.8	802.2	808.3	809.5	809.9	805.2	801.6	796.6	794.8	792.1
70°	722.3	730.5	737.6	745.3	749.6	751.5	749.6	747.7	744.8	743.6	741.4
72.5°	670.3	677.3	682.8	689.8	693.7	696.5	694.9	694.0	691.5	691.1	689.6
75°	605.7	610.5	613.6	618.9	621.0	623.7	622.4	623.1	622.3	624.3	624.2
77.5°	528.0	531.6	533.1	536.9	537.3	540.5	541.1	544.9	547.6	553.4	556.5
80°	440.6	442.9	442.9	446.8	448.6	453.9	456.6	462.6	465.5	470.7	471.1
82.5°	342.3	339.7	342.3	340.7	345.6	351.7	352.5	357.7	358.9	362.2	359.6
85°	234.0	233.8	231.7	232.1	230.5	231.3	230.3	231.4	230.4	230.5	228.2
87.5°	112.1	113.2	110.6	111.5	109.1	110.3	108.1	109.8	107.3	107.6	104.0
90°	42.4	43.8	45.0	46.5	48.2	52.0	55.9	59.8	64.0	67.8	71.8
92.5°	50.4	52.5	54.5	56.5	58.5	64.6	70.6	76.7	82.9	88.8	94.9
95°	57.8	59.6	61.4	63.3	65.1	73.8	82.6	91.3	100.1	108.8	117.7
97.5°	65.3	66.4	67.5	68.7	69.9	80.2	90.5	100.8	111.1	121.5	131.7
100°	75.1	76.4	77.7	79.2	80.6	104.3	128.1	151.8	175.6	199.3	223.1
102.5°	125.0	133.2	141.5	150.0	158.3	215.9	273.6	331.2	388.6	446.3	503.9
105°	291.4	319.4	347.7	375.7	403.7	490.9	578.2	665.4	752.6	839.7	927.0
107.5°	595.4	644.7	694.1	743.5	792.8	874.9	956.8	1038.9	1121.0	1202.9	1284.7
110°	915.1	957.5	1000.3	1042.9	1085.6	1150.7	1215.8	1280.9	1346.1	1411.2	1476.3



TEST NUMBER: P1444456
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CANDELA DISTRIBUTION (continued):

	192.5°	195°	197.5°	200°	202.5°	205°	207.5°	210°	212.5°	215°	217.5°
112.5°	1101.0	1127.0	1152.9	1178.8	1204.8	1252.6	1300.6	1348.4	1396.3	1443.9	1491.7
115°	1148.2	1161.9	1175.8	1189.5	1203.4	1232.3	1261.3	1290.2	1319.2	1348.1	1377.1
117.5°	1113.8	1118.9	1124.0	1128.7	1133.8	1148.8	1163.9	1178.8	1193.7	1208.7	1223.6
120°	1031.3	1031.0	1030.8	1030.5	1030.3	1035.1	1040.0	1044.7	1049.6	1054.3	1058.9
122.5°	938.0	934.7	931.7	928.4	925.2	923.7	922.6	921.1	919.9	918.4	917.1
125°	849.6	846.3	843.1	839.8	836.4	832.5	828.7	824.9	820.9	817.1	813.2
127.5°	773.6	770.7	768.1	765.0	762.1	757.6	753.3	748.8	744.6	740.1	735.7
130°	710.3	708.2	706.5	704.1	702.3	698.2	694.7	690.7	687.0	683.1	679.5
132.5°	664.0	662.7	661.4	659.8	658.4	654.9	651.9	648.4	645.0	641.6	638.3
135°	627.7	626.9	626.5	625.5	624.8	622.2	619.8	617.3	614.9	612.4	610.0
137.5°	597.3	597.2	597.2	597.2	597.2	595.1	593.1	591.1	589.1	587.0	585.2
140°	577.4	577.4	577.4	577.3	577.2	575.0	572.9	570.7	568.6	566.3	564.2
142.5°	556.9	557.0	557.0	556.9	556.9	555.1	553.6	552.0	550.3	548.7	547.1
145°	541.4	541.7	542.1	542.2	542.5	540.4	538.5	536.4	534.6	532.5	530.6
147.5°	526.5	526.8	527.3	527.6	528.0	526.2	524.7	522.9	521.4	519.6	518.1
150°	515.2	515.3	515.4	515.4	515.4	513.5	511.8	510.0	508.4	506.4	504.7
152.5°	504.0	504.2	504.4	504.6	504.8	502.9	501.0	499.1	497.2	495.1	493.3
155°	494.0	494.1	494.2	494.2	494.2	492.4	490.6	488.8	487.0	485.0	483.2
157.5°	485.3	485.5	485.7	485.8	485.9	484.3	482.7	481.2	479.6	477.9	476.3
160°	478.7	478.9	479.1	479.2	479.4	478.1	476.9	475.4	474.3	472.7	471.3
162.5°	474.2	474.4	474.6	474.7	474.9	473.6	472.4	471.1	469.8	468.2	466.9
165°	468.4	468.3	468.4	468.2	468.2	467.2	466.5	465.5	464.7	463.7	462.8
167.5°	467.5	467.3	467.4	467.2	467.2	466.6	466.2	465.5	464.8	464.0	463.4
170°	465.8	465.7	465.6	465.5	465.5	464.8	464.2	463.6	463.1	462.2	461.5
172.5°	464.2	463.9	463.7	463.4	463.0	462.5	462.2	461.8	461.4	461.0	460.5
175°	463.1	462.7	462.5	462.2	461.8	461.7	461.4	461.3	461.0	460.9	460.6
177.5°	466.3	465.7	465.0	464.4	463.9	463.7	463.5	463.3	463.3	463.0	462.8
180°	461.4	461.4	461.4	461.4	461.4	461.4	461.4	461.4	461.4	461.4	461.4



TEST NUMBER: P1444456
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CANDELA DISTRIBUTION (continued):

	220°	222.5°	225°	227.5°	230°	232.5°	235°	237.5°	240°	242.5°	245°
0°	24616.1	24616.1	24616.1	24616.1	24616.1	24616.1	24616.1	24616.1	24616.1	24616.1	24616.1
2.5°	24834.6	24681.2	24660.9	24671.7	24697.4	24706.8	24734.5	24742.0	24769.9	24776.7	24803.5
5°	25347.0	25144.3	25154.4	25203.1	25276.9	25320.9	25393.4	25431.4	25500.6	25532.1	25594.7
7.5°	25887.4	25728.1	25777.8	25860.0	25960.9	26030.8	26117.9	26174.6	26249.8	26296.3	26356.5
10°	26152.6	26109.1	26163.7	26228.4	26285.9	26331.0	26368.0	26397.5	26416.9	26435.0	26442.9
12.5°	25950.8	26018.3	26027.6	26021.3	25983.2	25954.0	25888.7	25844.2	25765.3	25717.2	25623.3
15°	25202.3	25350.7	25268.6	25144.1	24962.0	24810.2	24595.8	24436.2	24212.9	24061.5	23837.5
17.5°	23888.8	24076.1	23862.0	23574.1	23207.7	22894.4	22504.1	22194.5	21806.5	21524.3	21162.2
20°	22039.6	22214.7	21832.7	21355.4	20788.8	20311.9	19749.6	19300.9	18778.4	18389.7	17920.6
22.5°	19737.3	19862.0	19323.8	18680.3	17958.5	17362.7	16690.4	16152.5	15556.1	15111.7	14611.5
25°	17190.1	17223.8	16578.2	15836.9	15032.3	14362.8	13645.0	13079.5	12471.2	12020.9	11529.9
27.5°	14619.2	14569.9	13872.2	13086.1	12239.8	11543.9	10843.8	10313.8	9781.1	9375.4	8952.5
30°	12192.7	12073.2	11348.8	10540.8	9719.3	9095.5	8514.3	8088.8	7665.0	7343.1	7003.7
32.5°	9967.5	9798.9	9093.8	8336.8	7644.6	7163.2	6732.2	6410.2	6068.0	5796.2	5511.2
35°	7996.6	7816.9	7192.2	6550.5	6026.6	5671.8	5333.1	5068.8	4778.2	4548.9	4301.5
37.5°	6305.1	6157.8	5634.6	5129.6	4733.3	4458.4	4180.8	3964.9	3724.7	3623.8	3359.4
40°	4867.5	4764.6	4355.4	3983.2	3685.6	3556.4	3274.7	3073.0	2893.6	2745.6	2602.3
42.5°	3796.8	3760.3	3362.1	3071.8	2862.2	2699.5	2542.5	2415.0	2291.0	2189.0	2092.6
45°	2786.2	2757.4	2580.6	2413.1	2270.3	2156.5	2050.4	1962.7	1881.7	1814.4	1753.2
47.5°	2169.6	2160.4	2058.6	1954.7	1864.7	1791.6	1722.8	1664.6	1610.8	1565.9	1551.3
50°	1764.7	1763.4	1703.7	1639.6	1575.5	1533.3	1489.4	1454.9	1420.3	1393.4	1365.0
52.5°	1499.4	1492.9	1452.6	1412.9	1374.9	1347.2	1319.1	1297.2	1274.2	1257.6	1239.9
55°	1290.8	1297.6	1274.3	1250.7	1226.9	1209.7	1189.9	1175.4	1159.7	1149.2	1138.6
57.5°	1146.0	1155.0	1142.8	1129.3	1114.9	1103.5	1090.0	1079.9	1069.4	1062.7	1056.5
60°	1040.6	1050.4	1045.5	1038.7	1029.8	1023.1	1014.4	1008.8	1002.1	998.3	994.9
62.5°	951.1	963.5	961.7	958.5	952.8	949.1	944.3	941.9	937.4	935.8	934.1
65°	862.0	875.8	875.5	873.9	870.8	869.7	866.7	866.3	863.9	864.9	864.7
67.5°	791.8	803.8	806.5	808.4	808.3	809.0	808.8	810.0	810.0	811.7	812.8
70°	741.1	749.6	751.5	753.6	754.1	755.7	755.7	756.8	756.5	758.0	758.1
72.5°	690.0	701.0	703.0	704.7	704.7	706.2	705.4	705.2	702.9	702.4	700.9
75°	626.3	640.4	643.5	645.6	645.9	647.2	645.3	644.1	640.4	638.9	636.4
77.5°	559.8	574.5	576.6	577.4	576.2	576.5	572.4	569.7	565.1	563.1	560.7
80°	473.2	494.9	496.5	495.2	491.9	491.3	487.4	484.8	479.2	477.3	475.2
82.5°	360.1	385.5	389.0	390.5	387.8	388.5	384.7	383.3	378.1	377.2	373.8
85°	227.3	252.7	256.9	256.3	253.6	252.9	250.7	251.4	250.9	252.3	253.1
87.5°	104.4	129.0	134.9	133.0	132.7	131.0	127.1	128.5	131.0	132.5	132.5
90°	75.8	87.1	90.9	88.1	82.9	79.8	74.8	72.1	67.5	64.8	60.2
92.5°	101.0	107.0	113.1	107.6	102.3	96.9	91.5	86.0	80.7	75.2	70.0
95°	126.4	135.0	143.7	136.5	129.3	122.1	114.8	107.7	100.5	93.3	86.2
97.5°	142.0	152.1	162.3	155.1	148.0	140.7	133.5	126.4	119.1	111.8	104.7
100°	246.8	270.2	293.9	273.5	253.0	232.7	212.3	191.8	171.4	151.1	130.6
102.5°	561.4	618.8	676.2	624.5	572.9	521.2	469.6	418.0	366.3	314.5	263.0
105°	1014.0	1100.8	1187.8	1108.9	1030.0	951.2	872.4	793.6	714.7	635.8	557.1
107.5°	1366.8	1448.2	1529.8	1458.5	1387.3	1316.1	1244.7	1173.6	1102.3	1031.0	959.8
110°	1541.4	1605.5	1670.4	1622.5	1574.8	1526.9	1479.3	1431.4	1383.7	1336.0	1288.3



TEST NUMBER: P1444456
 CATALOG NUMBER: EHBR1-30-UNV-TA-L830-UPL40

CANDELA DISTRIBUTION (continued):

	220°	222.5°	225°	227.5°	230°	232.5°	235°	237.5°	240°	242.5°	245°
112.5°	1539.4	1586.2	1633.6	1605.5	1577.7	1549.7	1521.9	1493.9	1466.1	1438.2	1410.6
115°	1405.7	1433.4	1461.8	1450.8	1439.9	1428.9	1417.9	1407.0	1396.1	1385.1	1374.4
117.5°	1238.4	1251.8	1266.2	1264.3	1262.4	1260.4	1258.7	1256.8	1255.1	1253.3	1251.5
120°	1063.6	1066.7	1070.9	1072.4	1074.1	1075.7	1077.4	1079.0	1080.7	1082.4	1084.1
122.5°	915.6	912.4	910.4	911.9	913.5	914.9	916.5	917.9	919.5	921.2	922.8
125°	809.2	803.2	798.6	797.0	795.4	793.6	791.8	790.1	788.6	786.9	785.4
127.5°	731.2	724.6	719.6	715.4	711.2	706.9	702.7	698.5	694.5	690.2	686.1
130°	675.6	669.6	665.1	659.6	654.5	649.0	643.7	638.4	633.0	627.7	622.3
132.5°	635.0	629.0	625.1	620.0	614.9	609.8	604.7	599.5	594.3	589.2	584.1
135°	607.5	602.4	599.4	594.6	590.2	585.4	580.8	576.2	571.6	566.7	562.3
137.5°	583.1	578.2	575.7	572.0	568.5	564.7	561.2	557.2	553.6	549.8	546.2
140°	562.0	557.0	554.2	552.2	550.2	548.1	546.2	544.0	542.1	540.0	537.9
142.5°	545.4	540.7	538.4	537.2	536.1	534.7	533.6	532.3	531.2	529.6	528.4
145°	528.6	523.2	520.4	520.4	520.6	520.5	520.5	520.5	520.5	520.3	520.3
147.5°	516.3	510.8	508.3	508.6	509.0	509.4	509.9	510.0	510.5	510.8	511.2
150°	502.8	496.6	493.6	494.4	495.0	495.7	496.4	497.1	497.9	498.5	499.2
152.5°	491.2	483.9	480.5	481.3	482.1	482.8	483.6	484.5	485.3	486.2	486.9
155°	481.2	473.3	469.8	469.9	470.3	470.7	471.1	471.5	472.0	472.4	472.9
157.5°	474.6	466.5	463.1	463.0	463.2	463.3	463.5	463.7	464.0	464.1	464.6
160°	469.9	461.8	458.6	458.4	458.7	458.7	458.8	458.9	459.2	459.4	459.7
162.5°	465.4	457.5	454.4	454.2	454.2	454.3	454.4	454.4	454.6	454.7	455.1
165°	461.7	455.1	452.3	452.4	452.7	452.8	453.1	453.4	453.8	454.1	454.6
167.5°	462.5	456.6	454.6	454.3	454.0	453.7	453.7	453.4	453.4	453.2	453.2
170°	460.8	456.1	454.2	454.2	454.5	454.5	454.5	454.7	454.8	454.8	455.1
172.5°	460.0	456.6	455.1	455.5	456.0	456.3	456.7	457.1	457.6	458.0	458.4
175°	460.4	458.2	457.7	457.7	458.0	458.1	458.4	458.6	458.9	459.1	459.5
177.5°	462.7	462.0	461.6	461.6	461.6	461.6	461.6	461.6	461.6	461.7	461.7
180°	461.4	461.4	461.4	461.4	461.4	461.4	461.4	461.4	461.4	461.4	461.4



TEST NUMBER: P1444456
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CANDELA DISTRIBUTION (continued):

	247.5°	250°	252.5°	255°	257.5°	260°	262.5°	265°	267.5°	270°	272.5°
0°	24616.1	24616.1	24616.1	24616.1	24616.1	24616.1	24616.1	24616.1	24616.1	24616.1	24616.1
2.5°	24808.5	24837.4	24835.2	24862.2	24860.8	24886.3	24881.1	24903.2	24898.2	24916.9	24905.9
5°	25622.3	25677.3	25695.4	25745.1	25755.4	25799.8	25800.7	25836.0	25831.7	25859.3	25844.6
7.5°	26392.1	26443.4	26467.7	26506.3	26525.6	26557.6	26570.0	26596.3	26602.6	26618.1	26617.6
10°	26457.0	26456.8	26468.9	26463.4	26474.2	26468.0	26481.1	26476.5	26495.8	26490.9	26505.5
12.5°	25582.8	25496.1	25464.4	25386.5	25369.4	25302.6	25307.3	25264.4	25285.1	25258.8	25303.7
15°	23704.2	23502.9	23403.4	23228.4	23173.5	23035.3	23024.0	22932.1	22957.0	22908.9	22979.2
17.5°	20927.9	20611.1	20437.2	20181.7	20080.2	19884.6	19845.4	19727.2	19745.4	19685.9	19770.7
20°	17617.9	17235.0	17015.7	16720.2	16588.4	16355.2	16293.3	16161.0	16177.6	16118.3	16214.3
22.5°	14270.1	13869.4	13621.7	13312.0	13143.7	12924.4	12858.6	12725.7	12733.2	12677.6	12770.0
25°	11193.7	10809.4	10569.1	10287.8	10141.7	9940.6	9871.4	9752.2	9758.9	9713.0	9795.8
27.5°	8659.1	8343.8	8142.7	7906.9	7776.0	7610.7	7543.2	7442.9	7442.6	7409.0	7478.2
30°	6766.6	6503.5	6323.0	6117.6	5994.7	5845.4	5780.3	5690.6	5686.7	5662.8	5717.8
32.5°	5298.1	5064.1	4899.5	4718.7	4608.3	4480.3	4418.6	4346.5	4339.9	4318.3	4363.5
35°	4118.6	3921.5	3779.9	3627.8	3639.0	3450.2	3481.6	3334.9	3295.1	3286.3	3320.0
37.5°	3183.2	3030.5	2915.5	2801.6	2724.4	2644.6	2601.6	2563.0	2558.6	2554.9	2578.5
40°	2491.6	2384.8	2301.1	2222.9	2169.8	2121.1	2094.2	2073.0	2068.0	2065.2	2079.4
42.5°	2016.5	1944.5	1890.6	1842.9	1810.6	1784.1	1769.3	1757.5	1753.6	1753.7	1762.1
45°	1703.7	1660.0	1625.3	1595.6	1575.0	1584.1	1557.4	1571.3	1552.9	1572.0	1559.4
47.5°	1500.3	1463.1	1441.6	1420.6	1408.2	1398.1	1398.5	1398.7	1402.5	1403.2	1407.3
50°	1343.4	1321.9	1307.0	1293.6	1287.0	1281.8	1283.6	1285.0	1288.8	1289.1	1292.1
52.5°	1227.3	1213.1	1204.1	1195.8	1192.9	1189.9	1191.2	1190.7	1192.3	1191.5	1193.9
55°	1132.8	1126.1	1123.3	1120.2	1120.7	1119.8	1120.4	1117.4	1115.5	1113.3	1115.3
57.5°	1055.3	1054.4	1056.2	1057.5	1061.1	1062.4	1063.2	1059.7	1056.4	1053.4	1055.2
60°	995.5	996.9	1001.7	1005.6	1010.6	1013.1	1014.5	1012.5	1010.1	1007.6	1009.1
62.5°	936.5	938.9	944.5	948.8	955.0	958.2	961.7	961.9	962.8	961.9	962.9
65°	868.1	871.0	876.1	879.7	885.4	888.2	891.8	892.5	894.6	894.1	895.8
67.5°	816.2	818.7	823.0	826.4	831.5	834.4	837.6	837.8	838.5	838.4	839.9
70°	760.7	761.9	765.8	768.6	773.7	776.7	780.4	781.5	783.7	784.1	786.0
72.5°	701.6	701.0	703.3	704.6	708.4	710.8	715.5	718.0	721.8	722.9	724.2
75°	637.1	636.6	639.3	640.4	643.7	646.0	651.3	654.7	660.6	663.1	662.4
77.5°	562.6	563.9	569.0	571.9	576.2	579.3	586.0	591.3	602.2	607.0	602.1
80°	479.2	480.6	485.9	488.5	494.3	498.0	505.5	511.8	521.6	523.6	520.9
82.5°	376.7	377.1	381.9	383.9	391.4	396.8	406.3	411.4	417.4	416.5	415.7
85°	256.9	260.4	266.3	272.2	281.4	290.1	299.2	306.6	301.3	309.7	300.3
87.5°	137.3	136.9	145.0	143.7	156.4	163.8	171.7	175.4	179.7	178.8	178.9
90°	57.9	54.9	54.0	50.9	50.7	47.3	47.8	44.6	45.4	41.8	47.0
92.5°	64.4	61.6	58.6	55.8	52.8	49.9	46.9	44.0	41.1	38.2	41.1
95°	79.0	76.2	73.6	70.8	68.1	65.5	62.8	60.0	57.4	54.7	58.1
97.5°	97.5	95.9	94.3	92.8	91.2	89.6	88.1	86.6	84.9	83.3	85.5
100°	110.2	110.2	110.2	110.2	110.0	110.0	110.0	110.0	110.0	110.0	111.7
102.5°	211.3	206.2	201.0	195.8	190.6	185.4	180.2	175.1	169.9	164.8	172.4
105°	478.3	458.1	437.8	417.7	397.4	377.2	357.0	336.8	316.6	296.5	317.4
107.5°	888.7	851.8	815.0	778.2	741.3	704.6	667.8	631.0	594.2	557.4	590.4
110°	1240.6	1201.4	1162.4	1123.3	1084.2	1045.1	1006.1	967.1	928.1	889.0	920.4



TEST NUMBER: P1444456
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CANDELA DISTRIBUTION (continued):

	247.5°	250°	252.5°	255°	257.5°	260°	262.5°	265°	267.5°	270°	272.5°
112.5°	1382.8	1357.4	1332.2	1307.0	1281.8	1256.6	1231.4	1206.3	1181.2	1156.1	1171.4
115°	1363.5	1351.5	1339.4	1327.4	1315.5	1303.5	1291.5	1279.6	1267.7	1255.8	1256.8
117.5°	1249.9	1245.7	1241.7	1237.8	1233.7	1229.8	1225.9	1222.1	1218.2	1214.4	1205.9
120°	1086.1	1087.3	1088.5	1089.9	1091.3	1092.8	1094.1	1095.6	1097.2	1098.8	1087.3
122.5°	924.5	927.4	930.4	933.5	936.6	939.8	943.0	946.4	949.7	953.1	941.7
125°	783.7	786.6	789.6	792.6	795.5	798.8	802.0	805.4	808.7	812.1	802.5
127.5°	682.0	683.0	684.1	685.2	686.3	687.7	689.1	690.5	692.1	693.8	687.7
130°	617.0	616.0	614.9	614.1	613.1	612.4	611.8	611.2	610.6	610.3	607.5
132.5°	579.0	576.5	574.1	571.8	569.5	567.5	565.3	563.4	561.6	559.9	559.0
135°	557.5	554.2	550.8	547.6	544.3	541.4	538.4	535.8	533.0	530.4	530.7
137.5°	542.4	539.2	535.9	532.7	529.4	526.6	523.5	520.7	518.1	515.5	516.4
140°	535.9	532.5	529.1	526.1	523.0	520.0	517.0	514.3	511.4	509.0	509.6
142.5°	527.1	524.3	521.1	518.3	515.5	512.8	510.1	507.7	505.0	502.8	503.5
145°	520.3	518.2	515.9	513.7	511.6	509.8	507.6	505.8	504.0	502.5	502.8
147.5°	511.3	509.9	508.0	506.5	504.8	503.4	501.9	500.7	499.3	498.1	498.2
150°	499.8	498.8	497.7	496.6	495.6	494.7	493.7	492.9	492.1	491.3	491.2
152.5°	487.7	486.8	485.8	484.8	483.9	483.1	482.2	481.5	480.7	480.0	479.9
155°	473.4	472.9	472.5	472.1	471.6	471.4	471.0	470.9	470.5	470.3	470.4
157.5°	464.8	464.7	464.4	464.5	464.3	464.3	464.1	464.3	464.1	464.3	464.5
160°	460.1	459.8	459.4	459.3	459.0	458.7	458.5	458.4	458.2	458.1	458.4
162.5°	455.2	455.5	455.6	455.7	456.0	456.2	456.5	456.8	457.0	457.4	457.7
165°	455.1	455.0	454.7	454.6	454.7	454.6	454.6	454.8	454.7	454.9	455.3
167.5°	453.1	453.4	453.6	453.8	454.1	454.6	454.9	455.3	455.8	456.4	456.7
170°	455.1	455.1	455.1	455.1	455.1	455.2	455.3	455.4	455.5	455.8	456.1
172.5°	458.8	458.8	458.6	458.8	458.6	458.8	458.8	458.9	458.9	459.0	459.2
175°	459.5	459.9	460.2	460.5	460.6	460.9	461.0	461.2	461.5	461.8	461.8
177.5°	461.7	461.8	461.8	461.8	461.8	461.9	461.9	461.9	461.9	461.8	462.0
180°	461.4	461.4	461.4	461.4	461.4	461.4	461.4	461.4	461.4	461.4	461.4



TEST NUMBER: P1444456
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CANDELA DISTRIBUTION (continued):

	275°	277.5°	280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°
0°	24616.1	24616.1	24616.1	24616.1	24616.1	24616.1	24616.1	24616.1	24616.1	24616.1	24616.1
2.5°	24924.2	24911.8	24924.5	24911.6	24924.5	24909.0	24919.5	24902.7	24907.0	24889.6	24894.1
5°	25866.7	25846.8	25857.4	25831.5	25834.2	25799.8	25799.1	25759.0	25748.4	25702.7	25682.6
7.5°	26628.7	26622.2	26625.9	26609.3	26607.3	26583.8	26572.6	26539.4	26518.5	26476.5	26447.7
10°	26508.1	26527.5	26532.6	26552.3	26556.4	26576.0	26580.1	26599.8	26603.8	26618.4	26618.5
12.5°	25301.5	25367.5	25383.3	25464.8	25499.1	25592.3	25642.3	25745.1	25806.0	25908.5	25971.5
15°	22977.2	23091.4	23136.9	23295.9	23384.0	23569.7	23686.5	23899.8	24050.3	24276.8	24438.4
17.5°	19778.2	19937.7	20009.7	20225.4	20366.2	20640.4	20837.9	21163.2	21412.1	21773.6	22060.1
20°	16230.7	16408.0	16505.7	16751.8	16918.0	17238.3	17485.0	17884.7	18218.0	18675.9	19067.6
22.5°	12798.8	12967.5	13076.0	13326.5	13513.4	13847.6	14123.2	14545.1	14918.5	15434.6	15904.1
25°	9827.1	9981.7	10079.7	10306.2	10481.9	10788.8	11052.1	11457.8	11823.2	12340.9	12822.4
27.5°	7512.7	7642.1	7736.7	7929.8	8084.7	8345.0	8571.3	8906.5	9221.3	9669.2	10098.0
30°	5751.6	5866.3	5958.3	6126.5	6270.1	6495.9	6694.8	6976.3	7236.9	7593.2	7934.4
32.5°	4395.2	4494.0	4575.9	4723.2	4853.5	5056.7	5235.9	5482.7	5706.3	6008.6	6289.3
35°	3351.2	3545.5	3531.8	3734.8	3767.5	3913.4	4073.3	4289.1	4487.1	4744.1	4983.0
37.5°	2601.1	2655.7	2714.3	2804.0	2898.4	3031.1	3166.2	3429.9	3526.6	3720.8	3918.5
40°	2097.5	2134.4	2173.1	2233.8	2299.8	2393.3	2491.6	2617.4	2746.4	2903.9	3064.7
42.5°	1773.3	1794.2	1818.8	1854.4	1895.1	1954.4	2020.2	2105.5	2195.2	2306.0	2419.1
45°	1584.3	1574.3	1581.6	1600.8	1625.4	1661.3	1702.9	1755.8	1814.1	1885.9	1962.4
47.5°	1408.2	1412.2	1414.3	1424.7	1437.8	1462.0	1487.2	1523.1	1592.3	1613.4	1655.1
50°	1291.8	1293.7	1293.1	1298.4	1305.0	1320.8	1337.1	1361.3	1385.6	1417.7	1448.3
52.5°	1194.3	1197.0	1196.6	1200.1	1203.7	1213.6	1223.9	1241.1	1257.0	1277.4	1295.0
55°	1117.3	1121.1	1122.5	1125.5	1127.1	1132.4	1136.4	1144.7	1151.4	1163.0	1173.7
57.5°	1058.1	1063.2	1065.6	1066.5	1064.5	1064.2	1062.8	1064.6	1066.0	1072.2	1078.2
60°	1011.5	1015.6	1016.2	1015.6	1011.7	1009.0	1004.6	1003.2	1002.6	1005.6	1008.8
62.5°	962.7	964.2	963.1	961.9	957.6	954.9	950.4	948.7	947.1	949.3	950.9
65°	895.1	896.4	895.1	894.5	890.5	888.4	884.5	883.3	881.1	881.6	881.3
67.5°	840.3	841.6	840.6	839.6	836.9	835.5	832.7	831.0	828.2	827.3	825.4
70°	785.7	786.6	785.1	784.1	781.0	779.8	777.2	776.6	774.6	774.1	772.0
72.5°	722.9	723.0	720.7	720.0	717.8	717.7	716.6	717.6	717.5	718.6	718.2
75°	658.5	657.6	654.9	654.4	652.7	653.4	652.3	653.8	654.0	656.4	656.6
77.5°	594.1	590.7	585.5	583.0	579.5	579.2	577.1	578.5	578.0	580.8	581.9
80°	512.8	508.6	502.0	498.8	494.7	494.0	492.1	494.0	493.1	496.3	498.6
82.5°	409.3	405.8	398.9	396.3	391.5	392.0	390.0	392.0	391.7	396.5	399.2
85°	302.8	300.4	293.3	287.0	280.0	275.9	271.8	271.2	270.0	271.8	273.5
87.5°	174.9	172.7	167.1	163.5	151.2	151.7	146.9	146.6	145.4	144.3	146.9
90°	47.5	52.2	52.8	57.1	58.3	63.0	64.4	69.0	70.3	75.1	77.0
92.5°	44.0	46.9	49.8	52.8	55.7	58.6	61.5	64.4	70.7	76.8	83.3
95°	61.4	64.8	68.2	71.5	74.8	78.2	81.6	85.0	94.1	103.3	112.5
97.5°	87.9	90.0	92.3	94.5	96.8	99.0	101.3	103.5	113.4	123.4	133.2
100°	113.5	115.3	117.1	119.0	120.7	122.5	124.3	126.1	145.4	164.4	183.5
102.5°	180.0	187.6	195.3	202.9	210.7	218.3	225.9	233.5	277.4	321.1	364.8
105°	338.2	359.0	380.0	400.8	421.7	442.6	463.5	484.4	554.4	624.4	694.6
107.5°	623.4	656.4	689.3	722.3	755.3	788.3	821.3	854.4	922.7	991.0	1059.3
110°	951.8	983.3	1014.6	1046.2	1077.6	1109.1	1140.5	1172.1	1213.1	1254.1	1295.0



TEST NUMBER: P1444456
 CATALOG NUMBER: EHBR1-30-UNV-TA-L830-UPL40

CANDELA DISTRIBUTION (continued):

	275°	277.5°	280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°
112.5°	1186.7	1201.9	1217.3	1232.6	1248.0	1263.3	1278.7	1294.2	1314.7	1334.9	1355.4
115°	1257.7	1258.7	1259.7	1260.6	1261.7	1262.7	1263.9	1265.0	1271.5	1277.8	1284.2
117.5°	1197.5	1189.1	1180.7	1172.4	1164.0	1155.9	1147.7	1139.5	1138.1	1136.7	1135.3
120°	1076.2	1064.9	1053.6	1042.2	1031.1	1020.0	1008.9	998.0	992.3	986.5	980.9
122.5°	930.4	919.2	908.0	896.8	885.8	874.8	863.9	853.1	848.9	844.8	840.9
125°	793.0	783.7	774.3	764.9	755.8	746.7	737.8	728.8	728.4	727.8	727.6
127.5°	682.0	676.2	670.5	665.0	659.4	653.9	648.7	643.2	645.5	647.6	649.9
130°	604.9	602.4	600.1	597.4	595.3	593.0	590.9	588.7	592.8	596.7	600.9
132.5°	558.7	558.1	557.7	557.3	557.2	557.1	557.2	556.9	561.7	566.2	571.0
135°	531.3	531.9	532.8	533.5	534.7	535.4	536.6	537.6	542.2	546.5	551.1
137.5°	517.4	518.5	519.7	520.9	522.4	523.7	525.3	526.7	530.2	533.7	537.2
140°	510.5	511.2	512.3	513.3	514.4	515.4	516.8	517.9	520.9	523.5	526.2
142.5°	504.4	504.9	505.9	506.9	508.1	509.0	510.2	511.2	513.2	515.2	517.4
145°	503.5	503.9	504.8	505.4	506.1	506.9	507.8	508.5	509.9	511.0	512.2
147.5°	498.6	498.9	499.4	499.8	500.4	500.9	501.3	501.7	502.5	503.3	504.0
150°	491.3	491.4	491.6	491.5	491.9	492.1	492.4	492.6	493.3	493.9	494.7
152.5°	480.0	480.0	480.1	480.2	480.3	480.5	480.6	480.9	481.6	482.0	482.7
155°	470.7	471.1	471.4	471.7	472.2	472.4	472.9	473.0	473.5	473.9	474.3
157.5°	464.9	465.1	465.5	465.7	466.2	466.4	466.8	467.0	467.5	467.8	468.2
160°	459.1	459.6	460.1	460.8	461.2	461.7	462.4	462.9	463.3	463.6	464.0
162.5°	458.1	458.4	458.8	459.1	459.4	459.7	460.0	460.4	461.0	461.5	462.2
165°	456.0	456.5	457.1	457.6	458.1	458.7	459.3	459.8	460.1	460.5	460.8
167.5°	457.4	457.8	458.5	459.0	459.5	460.0	460.7	461.1	461.5	461.7	462.1
170°	456.6	457.1	457.7	458.1	458.7	459.1	459.6	460.0	460.6	461.0	461.6
172.5°	459.6	460.0	460.5	460.8	461.2	461.7	462.2	462.5	462.9	463.4	463.8
175°	461.8	461.8	461.9	462.0	462.1	462.1	462.2	462.4	462.5	462.5	462.6
177.5°	462.3	462.5	462.6	462.9	463.1	463.3	463.6	463.8	463.8	463.8	463.8
180°	461.4	461.4	461.4	461.4	461.4	461.4	461.4	461.4	461.4	461.4	461.4



TEST NUMBER: P1444456
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CANDELA DISTRIBUTION (continued):

	302.5°	305°	307.5°	310°	312.5°	315°	317.5°	320°	322.5°	325°	327.5°
0°	24616.1	24616.1	24616.1	24616.1	24616.1	24616.1	24616.1	24616.1	24616.1	24616.1	24616.1
2.5°	24876.6	24877.7	24857.6	24856.5	24837.8	24835.3	24817.1	24811.5	24796.7	24791.2	24776.0
5°	25631.4	25606.9	25550.4	25517.3	25461.4	25424.4	25364.0	25324.7	25266.3	25222.4	25163.7
7.5°	26394.7	26356.7	26293.3	26242.0	26164.5	26102.7	26012.0	25937.8	25839.7	25754.7	25651.6
10°	26618.5	26612.7	26596.5	26573.0	26537.0	26496.5	26434.9	26370.5	26284.5	26191.0	26076.5
12.5°	26067.8	26127.2	26208.3	26256.4	26314.9	26340.5	26364.5	26358.4	26342.7	26295.4	26229.2
15°	24672.3	24839.5	25060.8	25232.3	25429.7	25573.1	25731.5	25830.1	25928.6	25974.0	26001.8
17.5°	22452.6	22769.1	23165.9	23494.8	23874.3	24179.1	24513.2	24764.7	25023.3	25208.6	25376.2
20°	19601.4	20059.9	20621.2	21117.1	21693.6	22194.7	22743.7	23194.4	23659.2	24022.7	24366.7
22.5°	16508.8	17053.3	17731.9	18360.5	19103.8	19771.8	20525.4	21181.3	21866.3	22438.4	22991.6
25°	13467.7	14065.0	14806.9	15508.2	16350.0	17127.0	18020.8	18838.2	19723.5	20492.0	21251.2
27.5°	10690.8	11277.1	12034.6	12781.1	13671.3	14499.2	15456.8	16357.6	17365.5	18295.0	19245.7
30°	8408.4	8905.7	9584.9	10308.0	11185.9	12028.4	12996.5	13922.8	14971.3	15986.2	17057.1
32.5°	6661.7	7040.6	7574.6	8186.0	8996.1	9798.0	10719.8	11614.1	12646.6	13671.7	14785.6
35°	5290.6	5586.1	5993.3	6470.4	7156.4	7847.7	8663.1	9476.2	10439.5	11412.3	12494.9
37.5°	4171.9	4411.7	4730.6	5089.0	5639.2	6206.5	6875.1	7549.3	8386.4	9248.6	10229.8
40°	3257.8	3452.0	3700.2	3967.5	4383.0	4820.1	5337.2	5860.0	6532.4	7237.2	8049.2
42.5°	2559.3	2702.5	2877.9	3073.2	3460.9	3692.9	4043.5	4421.6	4916.0	5427.7	6038.1
45°	2055.3	2153.0	2274.6	2405.7	2585.6	2782.4	3022.6	3274.4	3744.0	3974.4	4345.7
47.5°	1716.4	1782.0	1859.4	1941.9	2048.0	2162.5	2305.0	2450.5	2638.8	2834.0	3062.8
50°	1488.1	1554.8	1581.4	1624.2	1685.6	1751.0	1831.3	1911.5	2012.5	2114.9	2232.6
52.5°	1318.7	1340.4	1369.4	1396.5	1434.6	1509.0	1533.1	1575.1	1631.7	1687.1	1748.9
55°	1189.3	1203.5	1222.3	1238.7	1261.7	1283.7	1315.4	1343.3	1381.2	1414.5	1455.6
57.5°	1088.6	1097.6	1110.7	1121.5	1136.3	1148.8	1167.4	1182.5	1204.2	1223.2	1248.1
60°	1015.5	1021.5	1030.3	1037.3	1046.8	1053.2	1062.5	1069.6	1081.1	1090.6	1104.6
62.5°	955.7	958.8	964.5	968.7	974.7	978.0	982.9	986.0	992.3	997.1	1004.9
65°	884.1	884.7	888.6	890.3	895.0	896.8	900.8	902.2	907.5	911.0	917.9
67.5°	825.2	823.6	823.7	822.3	823.0	821.6	822.0	820.6	822.6	823.7	828.9
70°	771.7	769.3	768.6	766.1	765.4	762.9	762.1	759.9	759.6	758.8	760.7
72.5°	719.4	718.7	718.9	717.1	717.0	715.3	715.4	714.2	715.5	716.0	718.4
75°	659.3	659.4	660.6	659.1	659.5	658.0	658.6	657.2	657.9	657.7	660.0
77.5°	586.1	587.8	591.0	590.3	591.3	589.8	590.4	588.5	589.1	587.8	588.7
80°	503.8	507.4	511.7	511.5	513.3	512.2	513.8	512.0	512.8	510.5	509.9
82.5°	406.1	409.2	413.7	413.9	418.0	418.6	423.1	422.9	425.7	424.0	422.6
85°	277.6	279.7	283.7	285.9	290.0	292.5	296.8	298.6	295.5	301.2	296.7
87.5°	145.0	150.3	147.3	154.4	152.7	159.8	158.3	164.9	163.5	169.3	168.5
90°	82.9	85.1	91.2	93.7	100.7	103.7	104.6	101.0	101.7	98.3	99.1
92.5°	89.4	95.9	102.2	108.5	114.7	121.1	115.2	109.4	103.5	97.8	91.9
95°	121.7	131.0	140.1	149.3	158.5	167.7	157.8	148.0	138.2	128.3	118.4
97.5°	143.0	153.0	162.8	172.6	182.7	192.5	180.8	169.2	157.5	145.9	134.2
100°	202.5	221.7	240.7	259.8	278.9	298.0	276.3	254.5	232.9	211.1	189.3
102.5°	408.8	452.4	496.3	540.1	583.9	627.7	581.6	535.6	489.3	443.3	397.1
105°	764.6	834.7	904.8	974.8	1044.9	1115.2	1040.3	965.6	890.7	816.0	741.1
107.5°	1127.7	1195.9	1264.4	1332.7	1401.0	1469.5	1393.6	1317.8	1242.0	1165.9	1090.0
110°	1336.1	1377.1	1418.3	1459.2	1500.2	1541.4	1486.0	1430.6	1375.3	1319.8	1264.4



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CANDELA DISTRIBUTION (continued):

	302.5°	305°	307.5°	310°	312.5°	315°	317.5°	320°	322.5°	325°	327.5°
112.5°	1375.8	1396.5	1416.9	1437.6	1458.0	1478.6	1439.0	1399.4	1359.6	1320.0	1280.3
115°	1290.8	1297.2	1303.7	1310.2	1316.5	1323.1	1296.3	1269.6	1242.8	1216.0	1189.2
117.5°	1134.0	1132.9	1131.5	1130.3	1128.9	1127.7	1112.6	1097.6	1082.5	1067.4	1052.3
120°	975.2	969.4	963.8	958.2	952.4	946.7	940.4	933.9	927.2	920.8	914.2
122.5°	836.9	832.9	828.8	824.9	820.7	816.6	814.0	811.6	808.8	806.2	803.4
125°	727.3	726.9	726.5	726.1	725.7	725.3	723.8	722.5	720.9	719.6	718.0
127.5°	651.9	654.3	656.3	658.4	660.5	662.6	662.1	661.6	661.0	660.6	660.0
130°	604.7	608.9	612.7	616.6	620.4	624.5	623.4	622.5	621.7	620.8	619.8
132.5°	575.6	580.2	584.8	589.6	594.0	598.5	597.3	596.4	595.1	594.2	592.8
135°	555.4	559.8	564.0	568.5	572.6	576.9	575.5	574.3	572.7	571.6	570.2
137.5°	540.6	544.1	547.5	550.9	554.2	557.6	556.0	554.8	553.3	552.2	550.7
140°	528.9	531.7	534.2	537.0	539.5	542.2	540.5	538.9	537.2	535.6	533.8
142.5°	519.3	521.3	523.1	525.1	527.0	529.0	526.6	524.6	522.3	520.2	518.0
145°	513.4	514.8	515.9	517.2	518.1	519.4	516.8	514.4	511.8	509.5	506.9
147.5°	504.7	505.5	506.0	506.7	507.1	507.9	505.4	503.2	500.9	498.4	496.1
150°	495.1	495.9	496.4	496.9	497.5	498.1	495.6	493.3	490.7	488.3	486.0
152.5°	483.3	483.9	484.5	484.9	485.5	486.0	483.6	481.5	479.1	476.8	474.4
155°	474.5	475.0	475.2	475.6	475.7	475.9	473.9	472.2	470.2	468.4	466.3
157.5°	468.4	468.8	469.1	469.3	469.5	469.8	468.2	466.8	465.3	463.9	462.3
160°	464.2	464.5	464.8	465.0	465.3	465.3	464.0	462.9	461.7	460.4	459.0
162.5°	462.6	463.2	463.7	464.0	464.5	464.9	463.4	462.0	460.6	459.1	457.5
165°	461.0	461.3	461.6	461.9	462.0	462.2	461.1	460.2	459.1	458.1	457.1
167.5°	462.3	462.6	462.8	463.1	463.2	463.4	462.4	461.4	460.3	459.3	458.1
170°	461.9	462.4	462.8	463.2	463.6	463.9	463.1	462.4	461.4	460.7	459.7
172.5°	464.0	464.5	464.7	465.1	465.4	465.7	464.9	464.0	463.2	462.4	461.4
175°	462.6	462.7	462.9	462.9	462.9	463.0	462.4	461.7	461.0	460.4	459.6
177.5°	463.8	463.8	463.8	463.7	463.7	463.7	463.2	462.7	462.4	461.9	461.3
180°	461.4	461.4	461.4	461.4	461.4	461.4	461.4	461.4	461.4	461.4	461.4



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CANDELA DISTRIBUTION (continued):

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
0°	24616.1	24616.1	24616.1	24616.1	24616.1	24616.1	24616.1	24616.1	24616.1	24616.1	24616.1
2.5°	24770.7	24759.9	24753.0	24744.2	24738.8	24731.9	24726.9	24722.7	24719.2	24716.0	24713.6
5°	25119.0	25063.6	25020.7	24974.2	24935.9	24897.8	24868.4	24844.0	24827.3	24814.6	24807.2
7.5°	25562.5	25461.2	25370.9	25276.2	25191.1	25107.5	25035.3	24973.2	24926.6	24896.4	24878.1
10°	25958.5	25822.8	25688.7	25547.4	25413.5	25283.6	25163.7	25058.3	24974.8	24919.4	24886.9
12.5°	26136.1	26020.5	25883.4	25730.1	25566.0	25399.9	25238.0	25092.1	24969.6	24887.4	24839.9
15°	25979.7	25932.2	25839.3	25720.2	25564.5	25392.8	25202.8	25024.2	24859.8	24753.3	24691.6
17.5°	25471.1	25537.3	25530.2	25484.7	25372.7	25228.2	25034.6	24833.9	24628.4	24485.9	24408.2
20°	24612.8	24821.0	24926.6	24980.8	24936.9	24843.1	24667.8	24464.2	24224.6	24038.7	23925.1
22.5°	23406.7	23774.2	24003.3	24170.8	24206.4	24174.5	24019.7	23826.0	23559.0	23335.5	23167.9
25°	21853.9	22392.4	22754.4	23038.3	23148.4	23176.9	23045.2	22852.6	22554.9	22294.5	22064.4
27.5°	20025.0	20724.8	21208.1	21589.5	21761.5	21836.2	21715.0	21518.5	21166.2	20855.4	20554.8
30°	17966.1	18796.2	19378.2	19835.5	20045.3	20143.8	20015.0	19795.7	19385.9	19011.9	18633.1
32.5°	15762.3	16670.7	17304.9	17801.5	18009.4	18102.2	17933.7	17687.3	17213.6	16773.0	16331.2
35°	13455.0	14371.9	15011.4	15494.8	15669.1	15725.0	15509.5	15224.7	14700.0	14216.3	13734.7
37.5°	11100.7	11953.8	12535.0	12968.8	13076.6	13086.3	12826.6	12512.2	11960.6	11483.8	11004.3
40°	8766.8	9486.2	9955.5	10302.7	10340.1	10306.7	10024.5	9708.0	9192.0	8764.8	8343.8
42.5°	6568.3	7111.4	7446.2	7684.1	7670.0	7604.0	7345.2	7073.2	6647.4	6322.0	5990.8
45°	4684.9	5043.0	5238.7	5377.9	5333.2	5270.4	5068.9	4878.3	4588.9	4378.7	4156.2
47.5°	3254.6	3682.2	3607.8	3880.0	3645.5	3800.4	3477.8	3299.9	3146.4	3034.7	2908.9
50°	2330.0	2428.0	2475.3	2507.7	2490.5	2466.6	2408.7	2356.9	2286.8	2235.6	2176.1
52.5°	1799.4	1848.4	1875.2	1894.7	1890.8	1882.1	1856.9	1833.8	1801.0	1779.4	1753.2
55°	1524.2	1524.9	1574.2	1553.1	1584.3	1547.7	1562.1	1521.5	1528.1	1493.2	1469.8
57.5°	1266.5	1286.7	1295.7	1304.4	1301.9	1300.4	1290.6	1285.7	1274.7	1271.3	1263.4
60°	1114.1	1124.6	1126.8	1130.8	1127.4	1126.1	1118.5	1115.7	1108.3	1107.0	1101.8
62.5°	1009.6	1014.9	1014.9	1014.9	1010.5	1006.4	997.9	993.4	987.1	985.7	982.7
65°	922.4	927.9	928.8	930.0	926.8	923.5	916.0	911.2	904.8	902.2	898.8
67.5°	832.3	838.3	840.2	843.2	841.4	840.8	835.6	833.8	829.5	828.4	825.2
70°	761.5	764.1	763.9	763.8	759.8	756.2	750.3	747.5	743.0	742.1	739.2
72.5°	719.5	721.3	720.1	718.6	713.4	708.2	701.2	696.1	690.3	686.6	682.5
75°	660.3	662.6	661.1	660.1	655.5	652.0	646.4	643.6	639.5	638.4	635.5
77.5°	587.6	588.7	586.4	586.1	582.5	580.3	576.1	575.4	572.4	572.4	569.7
80°	506.7	506.0	502.3	501.5	498.0	497.0	493.7	493.9	491.6	492.5	490.6
82.5°	416.9	414.7	409.6	408.1	404.1	403.7	401.5	403.3	401.8	404.1	402.8
85°	298.8	299.4	297.2	297.2	296.0	296.4	296.2	297.6	297.8	299.7	299.7
87.5°	166.5	169.0	168.5	170.7	170.6	173.1	173.9	177.5	178.0	181.3	181.3
90°	95.6	96.7	93.1	94.3	92.7	95.4	94.3	96.9	95.5	97.5	95.3
92.5°	86.1	80.2	74.5	68.6	65.7	62.6	59.9	56.7	54.0	50.9	47.9
95°	108.6	98.7	88.8	79.0	75.6	72.1	68.8	65.4	62.1	58.7	55.4
97.5°	122.6	110.9	99.3	87.6	84.7	81.8	78.8	75.9	72.9	70.0	67.1
100°	167.6	145.8	124.1	102.3	99.9	97.3	94.9	92.5	89.9	87.4	85.0
102.5°	351.0	304.7	258.5	212.4	203.6	194.8	186.1	177.3	168.5	159.8	151.1
105°	666.3	591.3	516.6	441.7	417.9	394.1	370.4	346.5	322.7	298.9	275.2
107.5°	1014.1	938.0	862.1	786.1	742.2	698.3	654.3	610.3	566.4	522.4	478.4
110°	1208.9	1153.5	1097.9	1042.3	1007.1	971.6	936.1	900.7	865.4	829.9	794.4



TEST NUMBER: P1444456
 CATALOG NUMBER: EHBR1-30-UNV-TA-L830-UPL40

CANDELA DISTRIBUTION (continued):

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
112.5°	1240.6	1200.8	1161.1	1121.1	1105.2	1089.0	1073.1	1057.0	1040.9	1024.7	1008.6
115°	1162.3	1135.4	1108.5	1081.4	1075.8	1070.0	1064.4	1058.6	1052.9	1047.1	1041.2
117.5°	1037.2	1021.9	1006.8	991.6	992.4	993.3	994.2	995.0	995.7	996.4	997.2
120°	907.7	901.0	894.6	887.9	892.8	897.5	902.2	906.8	911.4	915.9	920.5
122.5°	800.9	798.1	795.5	792.6	798.5	804.2	809.9	815.5	821.1	826.5	832.0
125°	716.7	715.1	713.7	712.0	717.8	723.6	729.3	734.9	740.6	746.0	751.4
127.5°	659.5	659.0	658.4	657.8	662.0	665.9	669.9	673.7	677.7	681.3	684.9
130°	618.8	617.9	617.0	616.0	619.7	623.3	627.0	630.2	633.8	636.9	640.1
132.5°	591.8	590.6	589.6	588.3	591.0	593.4	596.0	598.2	600.6	602.6	604.7
135°	569.0	567.5	566.1	564.6	567.1	569.4	571.8	573.8	576.0	577.8	579.7
137.5°	549.4	547.9	546.6	545.1	547.3	549.4	551.3	553.1	555.0	556.8	558.3
140°	532.3	530.6	529.1	527.3	529.1	530.9	532.7	534.3	536.1	537.4	538.8
142.5°	515.8	513.5	511.6	509.3	510.6	511.8	513.1	514.3	515.5	516.4	517.3
145°	504.4	501.8	499.5	496.8	497.9	498.8	499.9	500.9	501.6	502.3	503.1
147.5°	493.8	491.3	488.9	486.4	487.4	488.0	488.6	489.1	489.9	490.4	490.7
150°	483.4	480.8	478.3	475.8	476.4	477.0	477.4	478.1	478.7	479.0	479.4
152.5°	472.1	469.8	467.3	464.9	465.4	465.8	466.2	466.7	467.1	467.5	467.8
155°	464.3	462.3	460.3	458.2	458.7	459.2	459.5	459.8	460.1	460.4	460.6
157.5°	460.7	459.0	457.6	455.8	455.9	456.1	456.3	456.2	456.3	456.3	456.2
160°	457.8	456.4	455.0	453.6	453.6	453.6	453.8	453.6	453.7	453.6	453.5
162.5°	455.9	454.4	452.7	451.0	451.0	451.2	451.2	451.2	451.2	451.1	451.0
165°	456.1	454.9	453.7	452.4	452.3	452.1	452.1	451.8	451.6	451.2	450.9
167.5°	457.0	455.9	454.7	453.5	453.6	453.7	453.7	453.7	453.7	453.6	453.6
170°	458.9	457.9	457.0	456.0	455.8	455.7	455.5	455.3	455.1	454.9	454.6
172.5°	460.5	459.5	458.6	457.5	457.5	457.4	457.2	457.1	456.9	456.7	456.6
175°	458.9	458.2	457.4	456.7	456.6	456.6	456.5	456.4	456.2	456.1	455.9
177.5°	460.9	460.5	459.8	459.4	459.3	459.3	459.2	459.1	459.1	459.0	458.9
180°	461.4	461.4	461.4	461.4	461.4	461.4	461.4	461.4	461.4	461.4	461.4



TEST NUMBER: P1444456
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CANDELA DISTRIBUTION (continued):

	357.5°	360°
0°	24616.1	24616.1
2.5°	24711.4	24710.1
5°	24803.3	24801.8
7.5°	24873.2	24872.7
10°	24881.3	24885.6
12.5°	24831.8	24835.2
15°	24686.8	24693.5
17.5°	24409.6	24418.5
20°	23932.1	23941.3
22.5°	23158.8	23162.7
25°	22034.6	22018.7
27.5°	20501.9	20474.5
30°	18553.6	18527.0
32.5°	16230.5	16214.0
35°	13615.6	13605.1
37.5°	10862.5	10841.3
40°	8189.9	8127.7
42.5°	5845.7	5736.6
45°	4039.9	3910.5
47.5°	2820.2	2740.2
50°	2137.7	2111.9
52.5°	1741.8	1735.8
55°	1469.7	1467.1
57.5°	1265.2	1264.3
60°	1104.6	1104.3
62.5°	984.8	985.2
65°	900.4	900.6
67.5°	826.1	825.5
70°	740.3	739.6
72.5°	681.1	680.1
75°	635.5	634.9
77.5°	570.5	569.5
80°	491.9	490.6
82.5°	404.6	403.2
85°	301.8	301.9
87.5°	184.6	184.5
90°	97.1	94.5
92.5°	45.1	42.4
95°	52.0	48.6
97.5°	64.2	61.3
100°	82.4	80.0
102.5°	142.3	133.6
105°	251.4	227.6
107.5°	434.4	390.5
110°	759.0	723.6



TEST NUMBER: P1444456
CATALOG NUMBER: EHBR1-30-UNV-TA-L830-UPL40

CANDELA DISTRIBUTION (continued):

	357.5°	360°
112.5°	992.3	976.2
115°	1035.2	1029.3
117.5°	997.8	998.3
120°	924.8	929.3
122.5°	837.1	842.5
125°	756.7	761.9
127.5°	688.4	691.8
130°	642.9	646.0
132.5°	606.5	608.3
135°	581.2	582.8
137.5°	559.6	561.0
140°	539.9	541.0
142.5°	518.1	518.8
145°	503.7	504.1
147.5°	490.8	491.2
150°	479.6	479.9
152.5°	467.9	468.2
155°	460.7	460.9
157.5°	456.0	455.9
160°	453.3	453.2
162.5°	450.8	450.7
165°	450.5	450.1
167.5°	453.5	453.5
170°	454.3	454.1
172.5°	456.4	456.2
175°	455.8	455.7
177.5°	458.9	458.7
180°	461.4	461.4

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

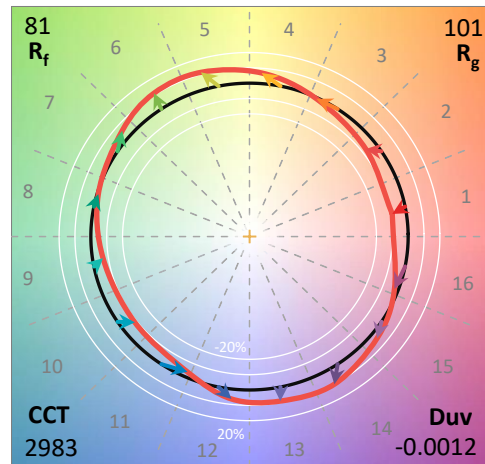
Test Information

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

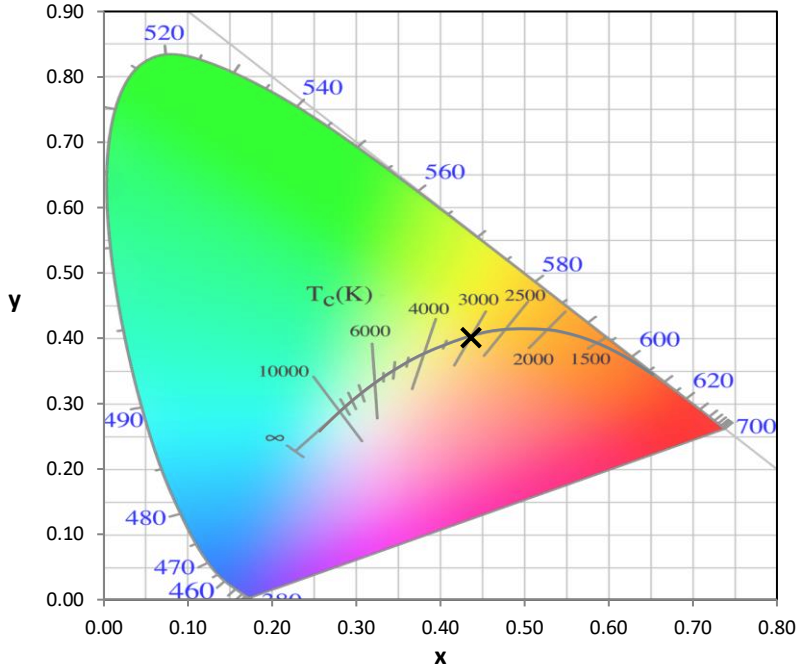
Stabilization Time: 38M
 Operation Time: 1H 38M
 Sphere Temperature (°C): 25.0

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

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CIE 1931 Chromaticity Diagram



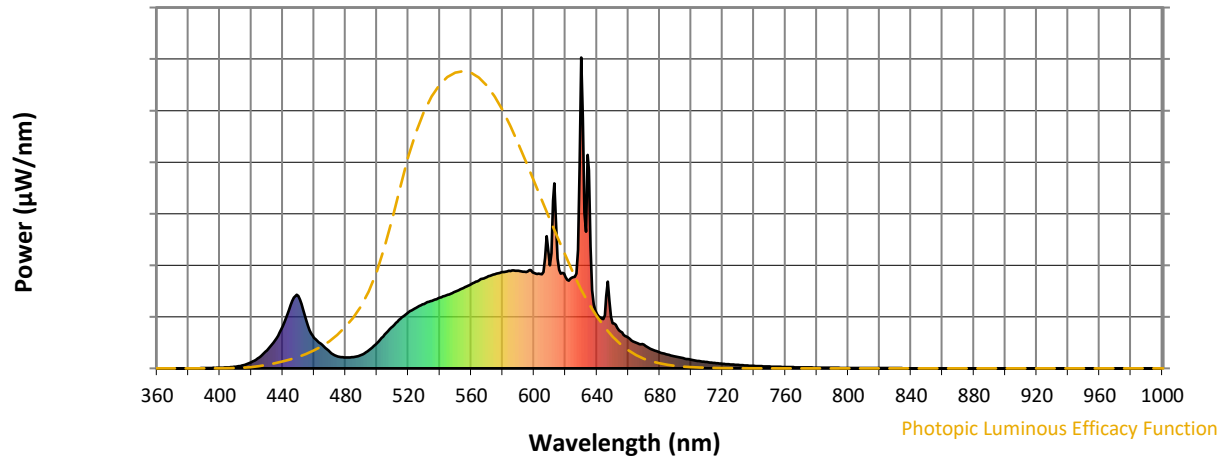
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2506-472-2

Photopic Flux vs. Wavelength

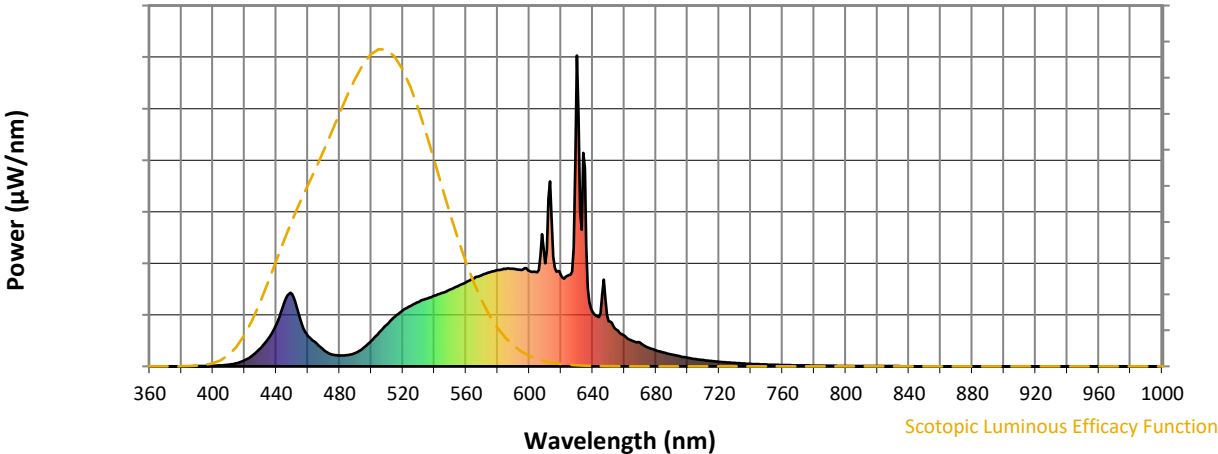


Photopic Lumens: NR

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

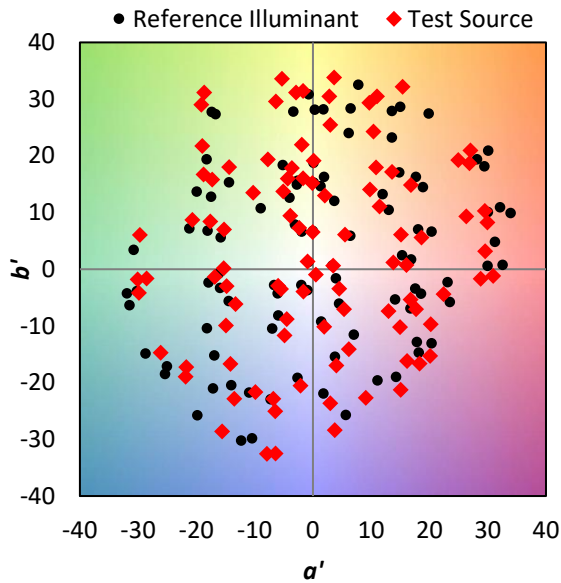
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	43	NR	620	294	NR	750	6	NR	880	0	NR
365	0	NR	495	59	NR	625	294	NR	755	5	NR	885	0	NR
370	0	NR	500	81	NR	630	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

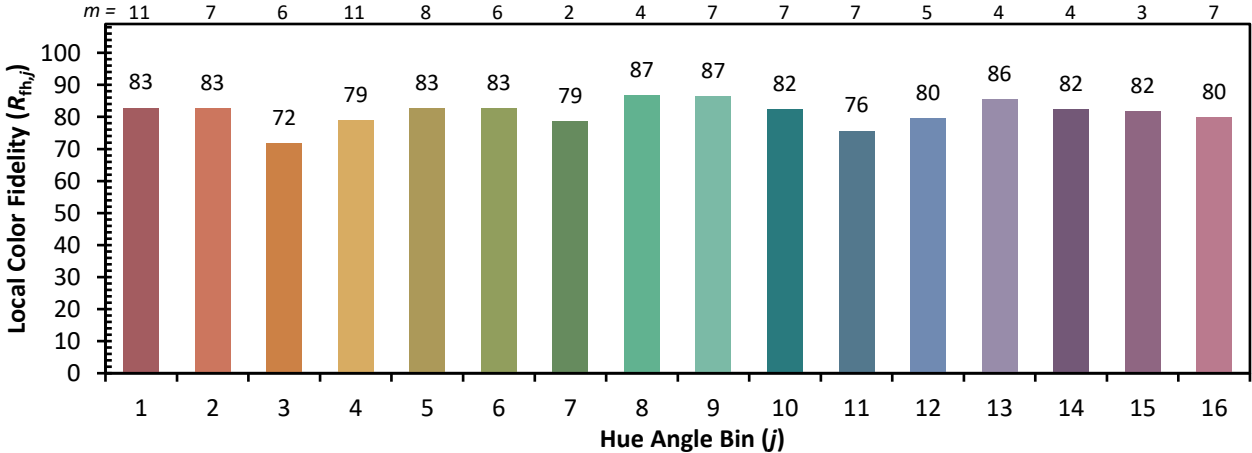


Individual Sample Fidelity Index ($R_{f,i}$)

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)