

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: P1444489

Luminaire Tested: EHBR1-54-UNV-TA-L830

Issue Date: 5/1/2026

Test Information

Test Method: LM-79-2019
Report Number: P1444489
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (C80-8019A)
Test Lab: INNOVATION CENTER
Issue Date: 5/1/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: EHBR1-54-UNV-TA-L830
Description: Elevate Round Highbay at, 54000 lumens, 3000K 80CRI LEDs with TA lens
Light Source: -
Ballast/Driver: -

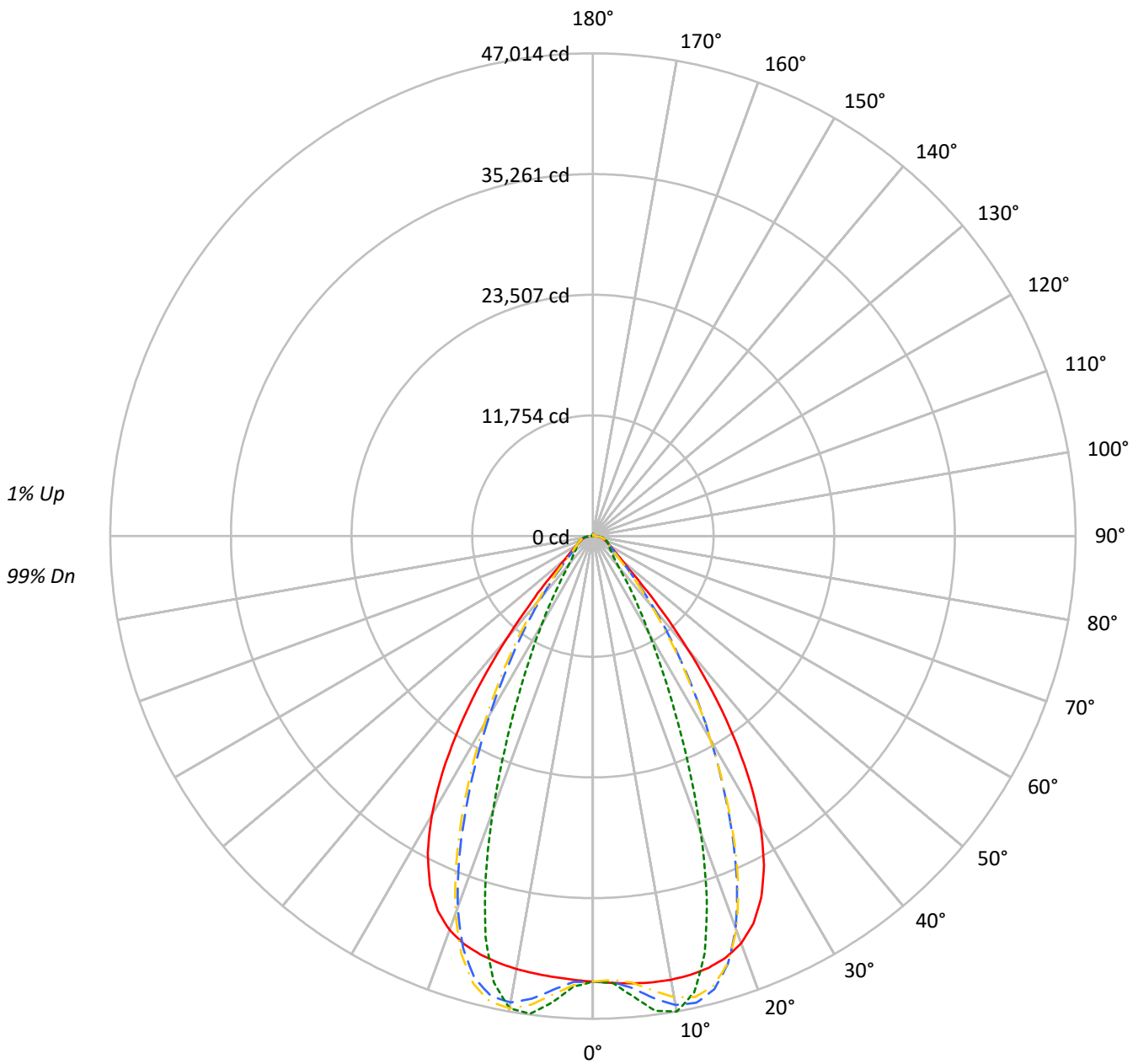
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 50244.1 lumens
Efficiency: N/A
Efficacy: 169.7 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 0.77 / 0.88
Luminous Opening: Circular (Dia: 1.71' x H: 0')
CIE Type: Direct

Input Watts (W): 296
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P1444489
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Luminous Intensity Polar Plot



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



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4277.0	8.5
10°-20°	12031.5	23.9
20°-30°	13703.0	27.3
30°-40°	9849.1	19.6
40°-50°	4542.4	9.0
50°-60°	2173.7	4.3
60°-70°	1586.0	3.2
70°-80°	1205.0	2.4
80°-90°	548.1	1.1
90°-100°	17.7	0.0
100°-110°	12.8	0.0
110°-120°	21.9	0.0
120°-130°	36.7	0.1
130°-140°	53.9	0.1
140°-150°	64.2	0.1
150°-160°	60.3	0.1
160°-170°	44.1	0.1
170°-180°	16.7	0.0
0°-30°	30011.5	59.7
0°-40°	39860.5	79.3
0°-60°	46576.6	92.7
0°-90°	49915.7	99.3
90°-120°	52.5	0.1
90°-150°	207.3	0.4
90°-180°	328.0	0.7
0°-180°	50244.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	43398	43398	43398	43398	43398	
5°	43725	45000	43113	45590	43725	4178
15°	43534	42083	42209	40388	43534	12266
25°	38819	18873	37536	17124	38819	17597
35°	23986	6541	22606	5794	23986	14721
45°	6894	2818	6780	2771	6894	5864
55°	2586	1981	2491	1963	2586	2387
65°	1588	1632	1527	1576	1588	1586
75°	1119	1223	1059	1169	1119	1164
85°	532	638	430	546	532	500
90°	120	159	18	27	120	79
95°	7	7	8	7	7	7
105°	13	10	14	10	13	15
115°	28	14	30	15	28	29
125°	55	24	57	26	55	49
135°	88	48	91	52	88	68
145°	117	86	119	92	117	73
155°	136	123	140	128	136	63
165°	160	151	163	154	160	45
175°	177	176	178	177	177	17
180°	180	180	180	180	180	



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CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
0°	43397.9	43397.9	43397.9	43397.9	43397.9	43397.9	43397.9	43397.9	43397.9	43397.9	43397.9
2.5°	43563.7	43560.1	43559.6	43556.5	43555.7	43555.7	43554.2	43550.7	43548.4	43543.5	43537.9
5°	43725.4	43723.4	43724.5	43724.9	43721.8	43715.1	43704.5	43691.5	43675.0	43659.6	43645.8
7.5°	43850.3	43853.4	43857.3	43856.4	43847.0	43831.0	43809.3	43797.1	43804.3	43828.0	43882.0
10°	43873.2	43891.8	43899.0	43896.8	43877.9	43864.2	43869.4	43915.4	44007.0	44129.1	44296.0
12.5°	43784.2	43807.1	43806.2	43798.7	43780.4	43799.0	43865.6	44002.5	44198.7	44439.5	44721.9
15°	43534.5	43564.1	43555.7	43545.9	43533.6	43594.9	43727.9	43965.6	44268.7	44608.2	44955.7
17.5°	43049.5	43085.2	43067.9	43056.8	43046.5	43161.3	43389.9	43737.9	44119.5	44503.7	44833.0
20°	42208.4	42232.3	42191.0	42171.5	42188.0	42413.0	42749.5	43194.1	43596.4	43959.6	44184.7
22.5°	40835.6	40865.3	40787.7	40778.7	40874.5	41220.2	41646.1	42143.0	42521.1	42808.9	42895.6
25°	38818.7	38847.9	38755.7	38810.8	38973.9	39444.6	39951.9	40483.5	40806.0	41019.2	40960.4
27.5°	36096.4	36123.1	36035.6	36148.2	36405.9	37024.5	37621.6	38198.1	38485.6	38635.0	38445.7
30°	32662.9	32718.4	32615.0	32772.2	33165.7	33968.8	34652.8	35299.4	35586.0	35699.8	35405.1
32.5°	28585.1	28664.0	28550.0	28783.8	29332.9	30297.7	31074.7	31797.1	32114.1	32244.0	31911.1
35°	23985.7	24099.0	23968.2	24319.1	24996.5	26070.7	26931.1	27737.7	28113.2	28297.1	27961.8
37.5°	19113.0	19220.9	19150.2	19618.3	20362.1	21475.5	22353.9	23224.0	23648.0	23924.1	23659.8
40°	14329.0	14427.8	14481.3	15016.8	15716.3	16765.8	17609.3	18470.3	18944.6	19291.2	19128.2
42.5°	10113.5	10213.0	10395.1	10911.7	11495.1	12363.8	13086.4	13859.4	14312.4	14682.3	14619.3
45°	6894.2	7009.8	7237.9	7660.9	8082.8	8706.0	9236.6	9837.8	10207.9	10546.6	10550.6
47.5°	4831.1	4912.3	5116.1	5405.0	5680.0	6460.2	6492.2	6787.7	7036.5	7289.7	7322.4
50°	3723.2	3772.1	3880.2	4041.2	4197.0	4399.5	4585.0	4799.0	4952.2	5091.0	5124.2
52.5°	3060.2	3091.3	3146.3	3233.5	3323.9	3434.1	3533.3	3650.8	3734.2	3808.5	3824.1
55°	2586.4	2612.2	2694.1	2710.6	2814.1	2833.9	2878.0	2949.6	2998.0	3042.5	3053.7
57.5°	2228.9	2247.5	2265.0	2302.1	2333.9	2380.3	2417.6	2468.9	2499.4	2531.5	2534.4
60°	1946.8	1960.3	1972.7	1998.4	2020.1	2052.3	2078.0	2112.9	2134.8	2158.9	2161.6
62.5°	1736.8	1746.5	1754.7	1771.8	1787.2	1812.0	1832.4	1861.5	1881.9	1900.6	1904.8
65°	1587.6	1594.7	1600.0	1612.9	1626.4	1647.5	1665.9	1689.7	1704.7	1719.0	1722.0
67.5°	1455.5	1462.2	1467.6	1479.3	1488.7	1504.4	1516.9	1534.7	1545.9	1557.4	1557.7
70°	1303.9	1310.2	1314.4	1325.3	1332.8	1346.3	1356.4	1372.5	1384.0	1396.7	1399.9
72.5°	1199.1	1202.7	1208.4	1218.4	1228.8	1243.3	1256.6	1273.4	1287.3	1300.5	1306.1
75°	1119.3	1123.6	1127.3	1135.9	1143.1	1155.3	1165.3	1180.5	1192.8	1206.9	1213.9
77.5°	1004.2	1009.1	1012.3	1020.8	1027.1	1038.8	1046.2	1059.9	1069.9	1082.7	1089.0
80°	865.0	869.6	871.9	879.9	884.9	895.7	903.0	916.1	924.5	937.4	945.0
82.5°	710.8	715.3	716.5	724.1	726.8	735.7	740.9	754.5	764.8	781.5	793.1
85°	532.2	533.8	536.4	534.5	545.3	545.9	558.1	560.3	576.5	580.7	598.9
87.5°	325.4	330.2	332.6	340.0	343.2	350.6	352.9	360.7	365.1	374.1	378.3
90°	120.5	126.7	128.0	135.5	136.7	143.3	144.0	151.5	152.8	160.6	162.0
92.5°	7.2	7.2	7.1	7.6	7.6	8.5	9.0	9.4	9.5	10.3	10.5
95°	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.2
97.5°	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.2	8.2
100°	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.4
102.5°	11.2	11.2	11.2	11.2	11.2	11.1	11.2	11.1	11.1	11.1	10.8
105°	13.4	13.2	13.4	13.2	13.2	13.2	13.2	12.8	12.8	12.7	12.7
107.5°	15.9	15.7	15.7	15.7	15.7	15.6	15.6	15.5	15.3	15.0	15.0
110°	19.5	19.1	19.1	19.0	18.8	18.8	18.6	18.2	18.2	17.9	17.7



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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°	23.6	23.3	23.1	23.0	22.9	22.4	22.2	21.9	21.7	21.3	20.9
115°	28.5	28.1	28.0	27.5	27.4	26.9	26.5	26.0	25.8	25.1	24.7
117.5°	34.3	33.8	33.4	33.2	32.5	32.0	31.6	30.9	30.3	29.6	29.1
120°	40.7	40.1	39.7	39.0	38.4	37.7	37.2	36.3	35.5	34.6	34.1
122.5°	47.6	46.9	46.6	45.7	45.1	44.0	43.5	42.2	41.5	40.6	39.5
125°	55.2	54.3	54.0	53.1	52.1	51.1	50.2	49.1	48.1	46.8	45.8
127.5°	63.0	62.4	61.7	60.6	59.7	58.5	57.4	56.1	55.2	53.6	52.5
130°	71.3	70.6	69.8	68.7	67.7	66.4	65.1	63.7	62.6	61.0	59.7
132.5°	79.6	79.0	78.1	77.0	75.9	74.3	73.2	71.4	70.2	68.7	67.3
135°	88.0	87.0	86.4	85.2	84.1	82.5	81.0	79.4	78.0	76.2	74.9
137.5°	95.8	95.1	94.2	92.9	91.8	90.1	88.8	87.0	85.5	83.8	82.3
140°	103.4	102.6	101.6	100.3	99.2	97.8	96.2	94.6	92.9	91.2	89.9
142.5°	110.5	109.5	108.8	107.4	106.3	104.7	103.2	101.4	100.0	98.3	96.9
145°	116.6	115.8	115.0	113.9	112.6	111.0	109.7	107.9	106.6	105.0	103.6
147.5°	122.2	121.4	120.8	119.6	118.7	117.1	115.8	114.2	112.9	111.5	110.3
150°	127.2	126.5	125.9	125.0	123.8	122.5	121.3	120.0	118.7	117.3	116.2
152.5°	131.4	130.6	130.1	129.2	128.1	126.7	125.9	124.5	123.4	122.1	120.9
155°	136.4	135.5	134.8	133.9	133.0	131.9	130.8	129.6	128.7	127.4	126.5
157.5°	141.8	140.9	140.2	139.1	138.4	137.3	136.4	135.3	134.3	133.3	132.4
160°	147.8	147.0	146.2	145.2	144.3	143.1	142.4	141.3	140.6	139.5	138.6
162.5°	154.1	153.2	152.3	151.4	150.5	149.4	148.7	147.8	147.0	145.8	145.1
165°	160.0	159.4	158.6	157.7	157.0	156.1	155.4	154.4	153.6	152.6	152.0
167.5°	166.0	165.1	164.7	163.9	163.1	162.4	161.7	160.8	160.4	159.4	158.8
170°	170.9	170.0	169.5	169.1	168.4	167.8	167.3	166.6	166.0	165.3	164.9
172.5°	174.3	173.7	173.4	173.1	172.4	172.1	171.6	171.1	170.9	170.2	170.0
175°	177.0	176.6	176.5	176.1	175.8	175.4	175.4	175.0	175.0	174.5	174.2
177.5°	178.8	178.7	178.7	178.5	178.5	178.3	178.2	177.9	177.7	177.7	177.6
180°	179.9	179.9	179.9	179.9	179.9	179.9	179.9	179.9	179.9	179.9	179.9



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CANDELA DISTRIBUTION (continued):

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
0°	43397.9	43397.9	43397.9	43397.9	43397.9	43397.9	43397.9	43397.9	43397.9	43397.9	43397.9
2.5°	43533.6	43528.3	43521.1	43511.9	43504.0	43494.9	43473.1	43466.8	43474.0	43478.8	43488.8
5°	43637.1	43640.1	43641.3	43661.0	43678.1	43720.7	44054.6	44187.3	44289.9	44355.0	44454.0
7.5°	43949.0	44049.3	44148.5	44282.1	44397.2	44552.7	45136.9	45385.5	45562.3	45689.4	45845.7
10°	44477.5	44696.5	44901.9	45142.5	45349.4	45586.2	46130.0	46372.2	46525.2	46636.5	46740.5
12.5°	45009.8	45313.7	45588.2	45856.0	46079.9	46285.2	46476.5	46561.3	46568.5	46572.0	46516.9
15°	45287.1	45577.5	45819.5	45996.5	46128.1	46186.3	45857.1	45684.4	45466.1	45286.3	44990.5
17.5°	45112.1	45286.3	45390.9	45380.5	45326.2	45144.1	44211.5	43698.7	43189.5	42730.6	42128.9
20°	44334.1	44320.8	44229.9	43972.4	43662.2	43179.7	41580.9	40658.5	39766.7	38983.4	38033.2
22.5°	42886.7	42659.0	42341.5	41786.3	41169.5	40326.5	38035.4	36678.6	35437.1	34340.3	33111.7
25°	40789.5	40321.1	39735.5	38854.0	37895.5	36666.1	33842.2	32154.5	30663.9	29371.1	27953.5
27.5°	38105.7	37400.0	36541.7	35321.8	34023.1	32448.1	29317.4	27454.8	25854.7	24468.6	22959.8
30°	34928.2	34010.3	32902.1	31388.0	29821.6	28035.1	24859.9	22973.4	21353.8	19927.8	18417.9
32.5°	31337.3	30262.3	28963.7	27264.2	25570.3	23733.6	20667.0	18841.1	17293.8	15922.0	14555.3
35°	27376.8	26223.9	24850.0	23116.8	21432.9	19647.2	16833.4	15187.0	13820.7	12608.1	11504.6
37.5°	23128.5	21996.5	20690.7	19057.1	17495.7	15877.4	13449.5	12069.9	10923.3	9916.9	9064.8
40°	18711.4	17720.8	16590.9	15178.6	13846.1	12498.4	10505.5	9410.3	8505.4	7737.9	7099.4
42.5°	14348.3	13580.7	12714.2	11598.1	10578.4	9552.3	8018.4	7206.9	6536.7	5984.3	5532.9
45°	10410.2	9896.7	9315.6	8539.7	7834.1	7118.3	6026.6	5456.4	5019.9	4663.7	4362.4
47.5°	7277.3	6979.4	6961.2	6244.2	5726.8	5289.1	4585.8	4225.7	3958.3	3742.3	3551.6
50°	5110.6	4966.5	4787.5	4531.6	4291.4	4044.1	3615.6	3397.8	3241.2	3110.4	2989.8
52.5°	3820.6	3745.7	3650.4	3514.6	3384.5	3245.4	2974.2	2835.6	2786.3	2664.6	2569.0
55°	3051.6	3008.6	2954.5	2874.7	2795.5	2763.9	2531.5	2428.5	2363.3	2315.3	2263.9
57.5°	2534.8	2502.8	2470.7	2416.6	2370.7	2315.3	2191.9	2139.2	2100.4	2072.1	2036.5
60°	2162.1	2143.0	2125.0	2093.3	2068.5	2038.7	1960.3	1930.6	1910.2	1893.2	1870.5
62.5°	1908.4	1898.5	1889.2	1872.3	1859.7	1843.5	1790.0	1775.6	1765.5	1757.0	1743.1
65°	1725.1	1718.1	1713.0	1701.6	1695.3	1685.9	1639.9	1630.2	1624.0	1620.9	1612.9
67.5°	1558.7	1551.3	1547.9	1539.9	1537.3	1531.3	1493.7	1488.4	1486.3	1487.3	1484.4
70°	1403.0	1399.9	1401.5	1400.3	1403.8	1404.9	1382.1	1381.9	1384.4	1389.1	1389.6
72.5°	1309.7	1309.7	1311.5	1312.2	1315.6	1317.3	1298.3	1297.3	1298.5	1302.0	1302.1
75°	1220.9	1222.4	1227.2	1228.8	1232.8	1233.6	1208.5	1205.6	1205.8	1209.2	1208.1
77.5°	1098.0	1103.3	1112.5	1117.3	1125.1	1126.5	1098.4	1095.0	1095.1	1098.5	1095.7
80°	958.6	968.7	983.4	993.5	1005.4	1010.2	981.3	974.4	967.9	967.0	961.2
82.5°	810.4	822.8	840.4	849.5	862.2	865.1	816.7	807.5	802.1	802.6	797.2
85°	618.7	628.1	644.0	649.1	657.0	656.4	601.1	577.4	583.7	573.8	581.6
87.5°	388.1	393.6	403.5	404.8	408.5	407.7	352.1	341.1	338.0	338.1	334.0
90°	169.4	171.4	178.5	177.0	181.3	178.8	132.2	125.4	122.9	126.5	122.2
92.5°	11.1	11.1	11.6	11.7	12.2	12.6	7.7	6.5	6.9	6.6	7.2
95°	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.1	7.1
97.5°	8.2	8.2	8.1	8.1	8.1	8.1	8.1	8.1	8.1	7.7	7.7
100°	9.4	9.4	9.2	9.2	9.0	9.0	9.0	9.0	9.0	8.7	8.7
102.5°	10.6	10.6	10.5	10.3	10.1	10.1	10.3	10.3	10.1	9.8	9.6
105°	12.6	12.4	12.2	11.7	11.6	11.4	11.7	11.6	11.4	11.2	11.1
107.5°	14.6	14.5	14.0	13.7	13.5	13.2	13.7	13.5	13.2	12.7	12.6
110°	17.3	16.9	16.6	16.1	15.6	15.3	15.9	15.6	15.3	14.8	14.5



TEST NUMBER: P1444489
 CATALOG NUMBER: EHBR1-54-UNV-TA-L830

CANDELA DISTRIBUTION (continued):

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
112.5°	20.2	20.0	19.5	18.8	18.2	17.7	18.6	18.5	17.9	17.0	16.8
115°	24.0	23.6	22.9	22.2	21.5	20.7	21.9	21.7	20.9	20.1	19.5
117.5°	28.3	27.5	26.9	26.0	25.1	24.3	25.9	25.4	24.4	23.6	22.9
120°	33.2	32.3	31.4	30.5	29.4	28.5	30.3	29.9	28.9	27.8	26.9
122.5°	38.6	37.7	36.5	35.5	34.4	33.3	35.4	35.0	33.8	32.7	31.6
125°	44.7	43.6	42.4	41.3	39.9	38.8	41.3	40.7	39.5	38.3	37.2
127.5°	51.3	50.2	48.9	47.8	46.2	45.1	47.6	47.1	45.8	44.6	43.1
130°	58.4	57.1	55.6	54.3	53.1	51.8	54.5	54.2	52.9	51.3	50.0
132.5°	65.8	64.5	62.9	61.7	60.3	58.8	61.9	61.6	60.5	58.8	57.6
135°	73.3	72.0	70.6	69.1	67.7	66.6	70.0	69.6	68.5	66.9	65.7
137.5°	80.7	79.4	78.0	76.9	75.4	74.2	78.1	78.0	76.9	75.3	74.2
140°	88.4	87.0	85.7	84.6	83.2	82.1	86.4	86.4	85.4	84.1	82.8
142.5°	95.4	94.2	92.9	92.0	90.7	89.7	94.6	94.7	93.8	92.5	91.5
145°	102.1	101.2	99.9	98.9	97.8	96.9	102.5	102.9	102.1	101.0	100.0
147.5°	108.8	107.7	106.6	105.7	104.7	104.3	110.3	111.0	110.3	109.4	108.6
150°	114.8	113.9	112.8	111.9	111.3	110.6	117.9	119.1	118.4	117.7	116.9
152.5°	119.8	118.9	117.9	117.1	116.2	115.8	125.1	126.7	126.3	125.4	125.0
155°	125.4	124.5	123.6	122.9	122.1	121.8	132.4	134.3	133.9	133.3	132.7
157.5°	131.4	130.5	129.5	128.8	128.1	127.6	139.1	141.7	141.1	140.6	140.1
160°	137.7	136.9	135.9	135.3	134.4	133.9	146.0	148.5	148.1	147.5	147.0
162.5°	144.1	143.6	142.7	141.8	141.1	140.6	152.6	155.4	154.7	154.3	153.8
165°	151.2	150.3	149.6	149.1	148.3	147.8	159.4	161.8	161.5	160.8	160.4
167.5°	157.9	157.5	156.6	156.1	155.5	155.2	166.0	168.2	168.0	167.3	166.9
170°	164.2	163.9	163.3	162.9	162.6	162.4	171.4	173.4	173.2	172.5	172.3
172.5°	169.5	169.4	169.1	168.7	168.4	168.2	175.8	177.6	177.4	177.0	176.6
175°	174.0	173.7	173.6	173.6	173.4	173.2	179.2	180.5	180.3	179.9	179.7
177.5°	177.6	177.4	177.4	177.4	177.4	177.4	181.0	181.7	181.6	181.6	181.4
180°	179.9	179.9	179.9	179.9	179.9	179.9	179.9	179.9	179.9	179.9	179.9



TEST NUMBER: P1444489
 CATALOG NUMBER: EHBR1-54-UNV-TA-L830

CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
0°	43397.9	43397.9	43397.9	43397.9	43397.9	43397.9	43397.9	43397.9	43397.9	43397.9	43397.9
2.5°	43491.0	43506.3	43508.5	43526.4	43524.9	43546.2	43542.8	43560.1	43550.0	43564.4	43552.3
5°	44512.5	44605.1	44653.6	44744.0	44772.6	44853.5	44876.3	44950.1	44953.2	45011.8	44998.4
7.5°	45956.6	46093.2	46174.3	46286.1	46342.6	46435.8	46476.8	46545.6	46567.8	46622.5	46626.7
10°	46819.1	46885.4	46931.6	46962.8	46991.3	47004.7	47020.3	47016.1	47020.3	47014.2	47027.6
12.5°	46479.9	46383.0	46319.0	46197.7	46127.5	45993.5	45927.7	45798.9	45752.0	45641.4	45625.5
15°	44761.9	44424.5	44186.1	43839.4	43621.5	43280.4	43080.7	42773.0	42632.4	42387.9	42323.7
17.5°	41630.8	41004.4	40519.7	39897.9	39466.4	38885.3	38519.8	38038.8	37775.3	37387.4	37253.1
20°	37241.0	36314.2	35587.2	34721.0	34101.2	33328.9	32834.4	32210.8	31848.8	31372.3	31179.2
22.5°	32087.3	30933.5	30025.4	29002.1	28254.2	27393.6	26801.2	26126.5	25732.6	25215.0	24985.9
25°	26775.4	25502.9	24493.3	23415.3	22625.1	21762.3	21169.8	20507.0	20099.4	19608.0	19380.3
27.5°	21694.9	20407.0	19431.3	18429.0	17704.1	16925.6	16391.0	15812.3	15450.5	15031.1	14816.9
30°	17211.6	16075.6	15245.3	14413.5	13810.5	13178.3	12734.0	12254.4	11937.0	11577.9	11373.8
32.5°	13559.0	12681.9	12031.8	11371.7	10878.3	10349.9	9966.0	9542.8	9256.4	8935.6	8750.8
35°	10738.5	10057.1	9538.5	8995.2	8571.2	8121.2	7782.9	7417.7	7160.7	6884.5	6724.9
37.5°	8484.5	7942.6	7516.0	7064.7	6716.4	6343.6	6218.0	5798.9	5532.5	5312.2	5159.5
40°	6658.7	6227.8	5874.8	5529.6	5245.6	4962.8	4735.9	4511.9	4340.1	4182.4	4073.4
42.5°	5199.9	4887.7	4629.9	4377.1	4169.9	3963.9	3799.5	3645.2	3529.4	3426.3	3356.0
45°	4133.7	3919.0	3739.8	3561.7	3415.5	3278.0	3167.4	3068.9	2994.2	2932.3	2888.3
47.5°	3395.9	3248.9	3122.5	3002.3	2903.1	2813.0	2738.9	2714.8	2634.4	2580.2	2559.6
50°	2886.1	2797.3	2701.3	2612.7	2546.3	2480.4	2432.4	2385.2	2355.2	2330.3	2322.7
52.5°	2505.5	2437.7	2384.3	2328.1	2284.4	2237.4	2204.3	2172.9	2156.4	2143.3	2141.7
55°	2222.6	2175.1	2139.8	2102.2	2075.9	2048.4	2031.3	2014.7	2007.5	2000.8	2001.3
57.5°	2008.6	1976.8	1953.9	1929.4	1915.3	1902.1	1897.7	1893.6	1895.8	1896.7	1900.5
60°	1852.5	1831.9	1817.5	1803.4	1797.5	1793.3	1796.5	1800.3	1807.8	1813.9	1819.4
62.5°	1733.0	1721.3	1714.2	1706.7	1706.0	1706.3	1712.8	1719.0	1728.5	1735.6	1740.9
65°	1610.0	1603.3	1601.0	1596.2	1598.6	1600.0	1607.8	1612.5	1622.0	1627.7	1634.5
67.5°	1485.6	1484.0	1485.5	1485.5	1489.8	1493.6	1501.0	1506.4	1514.5	1519.6	1525.1
70°	1393.8	1394.5	1397.9	1398.5	1403.2	1405.7	1412.2	1415.6	1423.0	1427.3	1433.9
72.5°	1304.6	1303.1	1303.9	1301.8	1303.4	1302.8	1306.3	1308.1	1314.2	1317.6	1325.6
75°	1209.5	1205.5	1204.5	1200.2	1200.3	1197.3	1198.7	1198.5	1202.5	1204.2	1209.9
77.5°	1094.6	1087.9	1084.7	1077.5	1077.3	1074.6	1077.5	1079.2	1086.3	1089.7	1096.2
80°	957.3	946.7	941.9	933.5	934.9	934.5	941.6	946.8	955.5	957.1	965.5
82.5°	795.6	784.9	779.7	771.6	773.4	773.6	780.1	781.2	788.7	792.0	801.6
85°	569.7	573.8	562.5	563.2	560.8	565.3	569.7	575.1	581.4	591.9	600.0
87.5°	335.5	334.0	338.1	338.5	344.3	347.4	356.7	362.0	372.5	380.7	395.5
90°	123.8	119.8	124.3	123.8	130.8	130.5	136.6	135.0	142.2	143.8	152.8
92.5°	6.6	7.1	6.6	6.9	6.6	7.2	6.6	7.1	6.6	7.2	6.6
95°	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1
97.5°	7.7	7.7	7.7	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6
100°	8.5	8.5	8.5	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3
102.5°	9.6	9.5	9.5	9.4	9.4	9.2	9.2	9.2	9.2	9.2	9.2
105°	10.8	10.6	10.5	10.3	10.3	10.1	10.1	9.8	9.8	9.8	9.8
107.5°	12.2	11.9	11.7	11.6	11.4	11.2	11.1	11.1	10.8	10.8	10.8
110°	13.9	13.5	13.4	12.8	12.7	12.6	12.2	12.2	11.9	11.7	11.7



TEST NUMBER: P1444489
 CATALOG NUMBER: EHBR1-54-UNV-TA-L830

CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
112.5°	16.1	15.6	15.0	14.6	14.3	13.9	13.7	13.5	13.4	13.2	12.8
115°	18.6	18.0	17.3	16.9	16.4	15.7	15.5	15.3	14.8	14.6	14.5
117.5°	21.9	21.1	20.1	19.5	18.8	18.2	17.7	17.0	16.8	16.6	16.4
120°	25.8	24.7	23.6	22.9	21.9	21.1	20.2	19.8	19.1	19.0	18.6
122.5°	30.3	29.1	27.8	26.9	25.8	24.7	23.8	23.1	22.4	21.9	21.5
125°	35.5	34.3	33.0	31.6	30.3	29.3	28.1	27.2	26.4	25.9	25.1
127.5°	41.7	40.1	38.6	37.3	35.7	34.6	33.3	32.3	31.2	30.4	29.6
130°	48.4	46.9	45.1	43.9	42.2	40.8	39.5	38.4	37.3	36.3	35.4
132.5°	56.0	54.5	52.9	51.3	49.7	48.2	46.8	45.5	44.0	43.1	42.2
135°	64.0	62.8	61.0	59.5	57.7	56.5	55.0	53.6	52.3	51.1	50.0
137.5°	72.7	71.3	69.8	68.5	66.8	65.5	63.7	62.6	61.0	60.1	58.8
140°	81.4	80.3	78.7	77.4	75.9	74.7	73.2	72.0	70.6	69.6	68.5
142.5°	90.1	89.0	87.7	86.6	85.2	84.1	82.7	81.6	80.3	79.3	78.1
145°	98.9	98.0	96.9	95.7	94.6	93.6	92.2	91.2	90.1	89.1	88.3
147.5°	107.6	106.6	105.7	104.7	103.6	102.6	101.4	100.9	99.6	98.9	98.0
150°	116.0	115.1	114.2	113.5	112.4	111.7	110.6	109.9	108.8	108.4	107.4
152.5°	124.0	123.4	122.5	122.0	120.9	120.2	119.3	118.7	117.9	117.3	116.2
155°	131.9	131.2	130.5	129.8	128.8	128.3	127.6	126.7	126.1	125.4	124.7
157.5°	139.5	138.8	138.0	137.5	136.6	135.9	135.3	134.6	133.9	133.3	132.5
160°	146.4	145.8	145.1	144.4	143.8	143.1	142.4	141.8	141.1	140.6	139.8
162.5°	153.2	152.5	152.0	151.4	150.5	150.1	149.2	148.7	148.0	147.3	146.5
165°	159.7	159.1	158.4	157.7	157.3	156.6	155.9	155.4	154.6	154.1	153.2
167.5°	166.3	165.8	165.1	164.7	163.9	163.3	162.8	162.1	161.5	160.8	160.0
170°	172.0	171.3	170.9	170.3	169.8	169.2	168.7	168.0	167.4	167.1	166.3
172.5°	176.3	176.1	175.6	175.4	174.7	174.3	174.0	173.6	173.1	172.5	172.3
175°	179.5	179.4	179.2	178.7	178.5	178.2	177.9	177.7	177.4	177.2	176.8
177.5°	181.4	181.3	181.3	181.0	180.8	180.8	180.6	180.6	180.5	180.3	180.3
180°	179.9	179.9	179.9	179.9	179.9	179.9	179.9	179.9	179.9	179.9	179.9



TEST NUMBER: P1444489
 CATALOG NUMBER: EHBR1-54-UNV-TA-L830

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	92.5°	95°	97.5°	100°	102.5°	105°	107.5°
0°	43397.9	43397.9	43397.9	43397.9	43397.9	43397.9	43397.9	43397.9	43397.9	43397.9	43397.9
2.5°	43564.8	43553.8	43559.0	43538.6	43543.5	43518.8	43516.6	43488.8	43486.1	43459.8	43450.0
5°	45039.9	45015.6	45043.0	45000.3	45008.7	44953.2	44948.5	44876.8	44852.1	44762.3	44723.5
7.5°	46660.9	46651.8	46668.5	46632.8	46631.7	46582.2	46561.7	46497.4	46457.5	46363.2	46303.1
10°	47016.1	47024.5	47010.8	47014.2	46994.9	46989.5	46969.8	46957.2	46924.9	46900.5	46864.5
12.5°	45541.4	45550.2	45494.0	45529.7	45501.5	45567.3	45562.0	45639.5	45651.4	45749.5	45786.7
15°	42133.1	42122.5	42014.6	42082.6	42046.1	42190.5	42222.8	42417.1	42521.1	42770.5	42923.7
17.5°	36984.4	36956.5	36804.5	36887.3	36845.2	37058.2	37129.5	37440.3	37634.2	38036.1	38322.5
20°	30846.8	30793.6	30615.7	30712.6	30669.2	30911.1	31013.0	31388.6	31638.6	32171.0	32549.7
22.5°	24632.9	24548.8	24374.7	24465.2	24424.2	24674.8	24807.4	25184.3	25470.6	26017.1	26459.3
25°	19053.0	18978.1	18809.7	18873.0	18857.7	19069.7	19187.8	19544.2	19825.5	20346.2	20768.1
27.5°	14532.2	14454.2	14302.0	14346.9	14331.5	14512.1	14623.3	14921.1	15163.2	15601.4	15972.0
30°	11122.3	11028.2	10899.2	10923.9	10913.3	11059.7	11163.6	11414.4	11621.8	11992.2	12311.4
32.5°	8525.2	8430.7	8312.1	8323.7	8308.0	8422.9	8508.5	8726.6	8907.4	9222.3	9500.2
35°	6523.0	6633.4	6380.3	6540.7	6373.6	6618.8	6530.6	6666.9	6822.4	7087.8	7319.5
37.5°	5014.6	4937.6	4872.4	4865.5	4865.2	4921.9	4989.0	5120.2	5257.3	5455.0	5659.2
40°	3973.8	3919.8	3877.6	3874.6	3877.6	3918.0	3967.5	4058.3	4158.6	4300.6	4450.7
42.5°	3295.9	3260.0	3234.6	3232.9	3240.9	3269.5	3304.0	3357.8	3423.1	3515.1	3618.0
45°	2852.7	2832.7	2818.6	2817.7	2821.5	2836.4	2856.1	2889.7	2931.1	2988.6	3053.7
47.5°	2541.6	2536.7	2527.9	2528.2	2524.1	2530.3	2532.6	2551.4	2573.4	2616.7	2701.7
50°	2315.1	2315.1	2309.0	2308.7	2302.9	2302.5	2297.7	2305.1	2315.5	2342.2	2369.5
52.5°	2136.1	2135.4	2128.9	2127.5	2121.5	2121.1	2117.0	2119.9	2121.3	2134.8	2151.1
55°	1996.1	1992.0	1983.3	1980.6	1978.1	1981.7	1980.1	1980.2	1978.4	1984.1	1988.9
57.5°	1895.8	1890.4	1882.1	1879.7	1879.0	1883.3	1883.4	1881.9	1874.4	1869.3	1862.0
60°	1816.4	1810.8	1802.0	1799.8	1801.1	1806.8	1806.5	1801.7	1790.4	1780.6	1769.3
62.5°	1738.3	1736.1	1731.6	1730.9	1729.8	1730.8	1726.7	1721.6	1710.5	1700.0	1687.7
65°	1633.6	1634.7	1631.4	1631.8	1627.8	1627.2	1621.1	1616.1	1604.9	1595.3	1582.7
67.5°	1524.9	1525.7	1523.0	1523.0	1520.8	1521.2	1517.5	1512.9	1503.3	1495.6	1485.8
70°	1435.3	1437.6	1436.0	1436.4	1433.9	1432.9	1427.1	1422.6	1412.8	1406.4	1397.5
72.5°	1328.1	1332.8	1332.7	1333.9	1329.9	1328.1	1321.1	1315.5	1306.6	1301.5	1294.4
75°	1212.2	1218.5	1220.3	1223.0	1217.5	1214.6	1207.0	1202.5	1195.3	1192.3	1187.7
77.5°	1099.1	1106.1	1112.7	1118.8	1109.9	1102.0	1092.6	1085.4	1075.1	1071.0	1063.8
80°	972.3	984.5	999.1	1011.4	995.4	979.3	963.8	952.2	938.5	932.9	923.9
82.5°	806.6	819.2	827.5	835.4	824.3	812.6	797.4	787.3	772.5	767.1	756.6
85°	612.8	628.4	633.4	637.5	630.5	624.2	610.1	590.9	581.6	567.0	559.4
87.5°	403.1	412.4	414.1	415.6	411.3	408.2	399.0	390.0	374.1	362.5	348.4
90°	152.8	159.4	156.1	158.9	153.2	153.4	144.0	140.7	127.4	122.2	110.3
92.5°	6.9	6.5	6.6	6.5	7.2	6.6	7.2	6.6	7.1	6.6	7.1
95°	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1
97.5°	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.7
100°	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3
102.5°	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.4
105°	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	10.1	10.1
107.5°	10.6	10.6	10.6	10.6	10.8	10.8	10.8	10.8	10.8	10.8	11.1
110°	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.9	11.9	12.2



TEST NUMBER: P1444489
 CATALOG NUMBER: EHBR1-54-UNV-TA-L830

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	92.5°	95°	97.5°	100°	102.5°	105°	107.5°
112.5°	12.8	12.8	12.8	12.8	12.8	12.8	12.8	13.2	13.2	13.4	13.4
115°	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.5	14.6	14.6	15.0
117.5°	16.1	15.9	15.9	15.9	15.9	15.9	16.1	16.1	16.4	16.6	16.9
120°	18.5	18.0	18.0	18.0	18.0	18.0	18.2	18.2	18.6	18.8	19.5
122.5°	21.3	20.9	20.9	20.7	20.7	20.7	20.9	21.1	21.5	21.9	22.4
125°	24.9	24.4	24.3	24.2	24.2	24.2	24.3	24.7	25.1	25.4	26.2
127.5°	29.3	28.9	28.5	28.3	28.3	28.3	28.8	28.9	29.4	30.1	30.9
130°	34.8	34.3	34.1	33.6	33.6	33.6	34.1	34.4	35.0	35.5	36.5
132.5°	41.7	40.8	40.6	40.1	40.1	40.1	40.6	40.8	41.7	42.2	43.5
135°	49.4	48.7	48.2	48.0	48.0	47.8	48.1	48.4	49.2	50.0	51.0
137.5°	58.3	57.4	57.1	56.5	56.5	56.5	56.8	57.1	57.7	58.5	59.7
140°	67.7	66.9	66.6	65.9	65.9	65.8	66.1	66.4	67.1	67.9	68.8
142.5°	77.6	76.5	76.2	75.9	75.6	75.6	76.1	76.2	76.9	77.4	78.3
145°	87.5	86.6	86.4	85.9	85.7	85.7	85.9	86.2	86.6	87.0	88.0
147.5°	97.3	96.7	96.4	95.8	95.8	95.7	95.8	95.8	96.4	96.7	97.3
150°	107.2	106.3	105.8	105.5	105.4	105.2	105.4	105.2	105.5	105.7	106.3
152.5°	116.0	115.1	115.0	114.6	114.2	114.0	114.0	113.9	114.0	114.0	114.6
155°	124.3	123.8	123.4	122.9	122.5	122.2	122.2	122.0	122.1	122.0	122.1
157.5°	132.2	131.6	131.2	130.6	130.3	129.8	129.6	129.4	129.4	128.8	128.8
160°	139.5	138.6	138.2	137.7	137.3	136.7	136.6	135.9	135.7	135.4	135.3
162.5°	146.0	145.4	144.9	144.3	144.0	143.3	142.9	142.4	142.0	141.7	141.5
165°	152.6	152.0	151.5	150.7	150.3	149.9	149.4	148.9	148.7	148.1	148.0
167.5°	159.7	158.9	158.4	157.7	157.5	156.8	156.6	156.1	155.9	155.5	155.5
170°	166.0	165.3	165.0	164.6	164.2	163.7	163.5	163.1	162.9	162.8	162.8
172.5°	172.0	171.4	171.1	170.9	170.5	170.2	170.0	169.8	169.5	169.5	169.4
175°	176.6	176.3	176.1	175.8	175.6	175.6	175.4	175.4	175.4	175.4	175.4
177.5°	179.9	179.8	179.8	179.8	179.7	179.7	179.7	179.7	179.7	179.5	179.4
180°	179.9	179.9	179.9	179.9	179.9	179.9	179.9	179.9	179.9	179.9	179.9



TEST NUMBER: P1444489
 CATALOG NUMBER: EHBR1-54-UNV-TA-L830

CANDELA DISTRIBUTION (continued):

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°
0°	43397.9	43397.9	43397.9	43397.9	43397.9	43397.9	43397.9	43397.9	43397.9	43397.9	43397.9
2.5°	43421.9	43410.5	43380.4	43365.6	43337.8	43323.7	43302.1	43288.0	43270.5	43257.5	43250.8
5°	44624.9	44569.5	44458.2	44389.6	44269.5	44190.4	44071.0	43983.5	43860.3	43769.4	43653.0
7.5°	46190.2	46105.0	45962.4	45854.3	45686.3	45557.8	45369.1	45218.2	45009.8	44836.8	44623.8
10°	46827.5	46777.7	46713.8	46644.3	46551.2	46459.7	46330.9	46199.7	46024.7	45850.7	45623.2
12.5°	45885.6	45932.4	46024.7	46067.8	46138.4	46162.4	46194.7	46179.6	46151.0	46079.9	45976.8
15°	43218.1	43413.5	43722.3	43935.9	44235.2	44445.4	44723.5	44902.5	45108.7	45231.9	45349.0
17.5°	38830.1	39208.1	39753.0	40187.7	40771.4	41245.9	41827.3	42284.1	42811.5	43216.2	43646.9
20°	33209.8	33739.1	34491.3	35130.2	35975.9	36693.0	37611.8	38381.4	39279.2	40027.5	40835.3
22.5°	27160.8	27783.4	28645.4	29415.9	30425.8	31327.9	32479.0	33496.5	34710.2	35797.5	37000.3
25°	21454.3	22064.6	22942.5	23740.4	24830.7	25824.3	27081.8	28249.3	29657.7	30971.1	32479.0
27.5°	16560.6	17102.7	17874.6	18592.7	19591.2	20566.7	21842.9	23087.8	24590.7	26002.2	27627.1
30°	12789.5	13229.2	13847.6	14425.4	15227.0	16024.7	17161.5	18312.8	19808.3	21271.0	22936.9
32.5°	9911.5	10286.4	10802.7	11271.7	11889.3	12490.8	13328.0	14248.0	15559.8	16960.8	18571.7
35°	7672.6	7993.3	8432.7	8836.7	9344.7	9822.2	10446.9	11103.6	12104.6	13283.1	14724.7
37.5°	6117.0	6247.8	6561.4	6892.4	7314.3	7706.7	8195.4	8680.9	9397.1	10326.9	11504.6
40°	4651.9	4859.6	5114.8	5375.5	5694.9	6009.7	6545.8	6803.9	7275.5	7943.0	8857.1
42.5°	3753.5	3899.5	4079.2	4260.4	4483.0	4702.3	4973.5	5249.6	5602.2	6054.2	6704.4
45°	3141.0	3236.2	3352.0	3472.8	3619.0	3768.6	3950.2	4139.8	4378.6	4656.6	5051.4
47.5°	2731.8	2784.5	2860.1	2942.5	3042.7	3146.3	3264.3	3385.2	3533.6	3698.5	3923.3
50°	2412.4	2456.3	2515.1	2570.1	2639.4	2745.5	2792.3	2859.0	2948.3	3045.3	3171.0
52.5°	2181.3	2210.5	2247.4	2279.1	2322.9	2362.6	2414.6	2460.6	2522.5	2580.6	2661.8
55°	2001.3	2012.0	2032.8	2053.3	2083.5	2110.7	2146.4	2176.4	2215.9	2250.7	2301.9
57.5°	1862.4	1863.3	1872.9	1883.5	1903.0	1920.1	1944.7	1964.5	1991.8	2014.0	2044.7
60°	1762.4	1757.2	1759.0	1762.8	1773.8	1784.8	1800.5	1813.5	1830.6	1843.2	1860.4
62.5°	1679.3	1670.9	1669.0	1668.1	1673.5	1677.6	1686.1	1692.4	1702.2	1707.6	1716.8
65°	1574.3	1564.5	1560.7	1556.1	1557.7	1556.4	1559.6	1559.8	1564.8	1565.9	1571.2
67.5°	1479.1	1470.8	1465.9	1459.8	1457.1	1452.6	1450.8	1446.6	1445.9	1442.4	1441.6
70°	1392.2	1384.2	1380.0	1374.3	1371.4	1365.6	1362.2	1355.0	1350.9	1344.3	1340.6
72.5°	1291.7	1287.2	1285.9	1282.1	1281.0	1277.9	1276.5	1271.4	1268.5	1262.9	1259.7
75°	1186.6	1183.0	1182.6	1178.8	1178.5	1174.6	1173.6	1168.4	1165.5	1159.9	1157.6
77.5°	1061.6	1056.0	1054.5	1050.0	1051.1	1049.1	1050.8	1046.8	1045.0	1039.4	1037.6
80°	920.6	913.6	910.7	904.7	906.4	903.5	906.4	906.0	908.0	903.5	902.8
82.5°	753.7	746.0	744.5	740.4	743.1	743.4	749.4	746.1	747.4	743.2	745.0
85°	548.4	542.6	534.6	533.5	528.4	533.6	526.7	531.4	523.8	529.1	522.1
87.5°	340.0	328.1	321.9	313.3	310.1	301.9	298.5	292.5	294.3	291.6	293.2
90°	107.4	96.9	93.6	84.3	82.5	74.3	74.2	68.0	68.7	62.4	63.5
92.5°	6.6	6.6	6.5	6.9	6.6	6.6	6.5	6.9	6.6	6.9	6.6
95°	7.1	7.1	7.1	7.1	7.1	7.1	7.2	7.2	7.2	7.2	7.2
97.5°	7.7	7.7	7.7	7.7	7.7	7.7	7.7	8.1	8.1	8.1	8.1
100°	8.3	8.5	8.5	8.5	8.5	8.7	8.7	8.7	9.0	9.0	9.0
102.5°	9.4	9.4	9.4	9.5	9.5	9.5	9.6	9.8	9.8	10.1	10.3
105°	10.1	10.3	10.3	10.5	10.5	10.6	10.8	11.1	11.2	11.4	11.6
107.5°	11.1	11.2	11.4	11.6	11.6	11.9	12.2	12.4	12.6	12.8	13.4
110°	12.2	12.4	12.6	12.8	13.2	13.4	13.7	14.0	14.5	14.8	15.5



TEST NUMBER: P1444489
 CATALOG NUMBER: EHBR1-54-UNV-TA-L830

CANDELA DISTRIBUTION (continued):

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°
112.5°	13.5	13.9	14.0	14.5	14.8	15.3	15.6	16.1	16.8	17.3	17.9
115°	15.3	15.6	15.7	16.4	16.8	17.3	17.9	18.6	19.5	20.1	20.9
117.5°	17.0	17.7	18.0	18.6	19.1	20.1	20.7	21.7	22.7	23.6	24.3
120°	19.8	20.2	20.9	21.7	22.4	23.3	24.3	25.3	26.4	27.5	28.5
122.5°	22.9	23.6	24.3	25.3	26.2	27.4	28.5	29.9	31.0	32.3	33.4
125°	26.9	27.8	28.8	29.9	31.0	32.3	33.4	35.0	36.3	37.8	39.2
127.5°	31.6	32.7	33.8	35.0	36.3	37.8	39.2	40.8	42.2	43.9	45.1
130°	37.5	38.6	39.7	41.3	42.6	44.2	45.8	47.6	48.9	50.5	52.0
132.5°	44.2	45.7	46.8	48.4	49.8	51.4	53.1	54.7	56.3	58.1	59.4
135°	52.1	53.4	54.7	56.3	57.7	59.5	61.0	62.8	64.0	65.8	67.1
137.5°	60.6	61.9	63.4	64.8	66.1	67.9	69.3	70.9	72.2	73.8	75.1
140°	69.8	71.1	72.2	73.8	75.1	76.5	77.7	79.3	80.5	82.1	83.2
142.5°	79.2	80.5	81.2	82.5	83.6	85.2	86.4	87.7	88.6	89.7	90.7
145°	88.6	89.7	90.6	91.7	92.6	93.8	94.6	95.7	96.4	97.3	98.1
147.5°	98.0	98.7	99.2	100.2	101.0	101.6	102.5	103.2	103.7	104.5	105.2
150°	106.6	107.3	107.6	108.4	108.8	109.4	109.7	110.3	110.6	111.3	111.7
152.5°	114.7	115.0	115.0	115.7	115.8	116.2	116.2	116.8	116.9	117.3	117.7
155°	122.0	122.1	122.1	122.2	122.2	122.4	122.4	122.9	123.1	123.2	123.6
157.5°	128.7	128.5	128.5	128.5	128.3	128.5	128.5	128.7	128.8	129.4	129.6
160°	134.8	134.6	134.4	134.4	134.4	134.4	134.4	134.8	135.0	135.5	135.9
162.5°	141.1	140.9	140.7	140.7	140.7	140.9	141.1	141.5	141.7	142.2	142.7
165°	147.8	147.8	147.5	147.8	147.8	148.0	148.1	148.5	148.9	149.4	149.9
167.5°	155.4	155.4	155.4	155.5	155.5	155.7	155.9	156.5	156.6	157.3	157.5
170°	162.6	162.8	162.6	162.8	162.8	162.9	163.1	163.3	163.5	163.9	164.0
172.5°	169.4	169.4	169.4	169.4	169.4	169.5	169.5	169.8	169.8	170.0	170.0
175°	175.2	175.2	175.2	175.2	175.2	175.0	175.0	174.7	174.7	174.7	174.7
177.5°	179.2	178.8	178.7	178.7	178.5	178.3	178.3	178.2	178.2	178.2	177.9
180°	179.9	179.9	179.9	179.9	179.9	179.9	179.9	179.9	179.9	179.9	179.9



TEST NUMBER: P1444489
 CATALOG NUMBER: EHBR1-54-UNV-TA-L830

CANDELA DISTRIBUTION (continued):

	137.5°	140°	142.5°	145°	147.5°	150°	152.5°	155°	157.5°	160°	162.5°
0°	43397.9	43397.9	43397.9	43397.9	43397.9	43397.9	43397.9	43397.9	43397.9	43397.9	43397.9
2.5°	43242.0	43241.6	43237.4	43239.3	43240.1	43243.2	43246.9	43250.8	43251.5	43254.6	43255.2
5°	43565.7	43458.7	43379.5	43292.5	43227.1	43168.2	43129.0	43097.8	43085.7	43088.8	43096.0
7.5°	44443.2	44222.4	44040.1	43833.0	43660.2	43477.3	43325.7	43181.5	43076.5	42998.2	42954.5
10°	45406.1	45137.2	44879.9	44580.0	44295.7	43992.2	43717.3	43440.5	43209.7	43009.4	42862.1
12.5°	45833.4	45643.4	45420.9	45138.0	44833.7	44483.6	44129.9	43750.8	43398.2	43070.9	42806.9
15°	45381.0	45381.4	45300.3	45164.5	44953.2	44673.3	44336.4	43941.2	43525.3	43100.9	42713.1
17.5°	43944.8	44215.7	44366.5	44461.8	44432.6	44329.5	44115.1	43811.6	43423.8	42971.7	42498.5
20°	41478.3	42117.4	42573.1	42982.9	43212.6	43365.2	43349.9	43226.5	42950.3	42565.9	42073.1
22.5°	38023.2	39096.0	39942.5	40731.8	41285.4	41735.8	41949.9	42040.7	41915.7	41647.9	41185.1
25°	33826.6	35285.3	36530.0	37738.0	38644.2	39423.0	39891.0	40220.7	40246.9	40107.0	39694.2
27.5°	29163.4	30885.2	32460.6	34066.1	35340.4	36460.0	37194.6	37732.2	37903.1	37880.5	37505.6
30°	24506.2	26313.7	28050.3	29922.4	31499.3	32929.6	33900.0	34627.1	34907.3	34961.0	34600.4
32.5°	20108.0	21890.3	23622.1	25579.4	27314.6	28953.9	30100.3	30964.0	31289.8	31366.6	30971.1
35°	16116.3	17760.7	19406.4	21303.3	23028.6	24726.1	25934.1	26838.4	27142.6	27194.0	26736.1
37.5°	12654.7	14055.8	15489.8	17191.8	18776.2	20370.4	21518.2	22368.0	22589.7	22576.0	22057.8
40°	9740.2	10829.4	11981.6	13382.9	14700.1	16047.8	17017.0	17719.5	17836.0	17749.7	17205.3
42.5°	7324.0	8110.8	8946.1	9921.1	10969.4	11978.1	12683.2	13204.8	13221.4	13085.0	12596.3
45°	5456.4	6224.0	6574.3	7206.7	7836.2	8506.9	8937.4	9259.6	9209.7	9089.7	8718.4
47.5°	4159.5	4454.5	4767.4	5159.5	5526.2	6287.3	6230.9	6748.2	6375.6	6629.7	6070.3
50°	3303.1	3468.0	3636.6	3844.6	4036.2	4235.1	4359.5	4452.3	4440.3	4400.4	4293.2
52.5°	2810.1	2861.2	2944.2	3062.5	3169.4	3277.1	3347.8	3405.4	3406.5	3390.4	3336.3
55°	2348.7	2413.3	2473.0	2550.4	2682.2	2702.4	2803.9	2783.3	2791.3	2763.2	2792.0
57.5°	2070.8	2108.4	2142.1	2188.1	2226.2	2270.6	2296.8	2322.0	2319.6	2314.1	2286.5
60°	1873.9	1894.7	1913.3	1940.2	1961.1	1986.2	1998.3	2011.1	2006.9	1997.6	1973.0
62.5°	1722.0	1735.2	1745.7	1763.1	1775.8	1791.5	1797.6	1803.2	1797.6	1788.8	1767.1
65°	1572.4	1580.7	1587.4	1600.5	1609.5	1622.8	1628.2	1633.3	1628.3	1621.4	1604.9
67.5°	1437.3	1438.0	1437.4	1442.7	1445.4	1453.5	1455.9	1459.6	1453.8	1447.9	1433.9
70°	1334.8	1332.7	1330.1	1332.2	1332.7	1336.6	1337.2	1336.6	1329.7	1319.4	1304.1
72.5°	1254.7	1253.6	1251.6	1253.4	1253.4	1257.0	1255.8	1254.1	1245.5	1235.5	1220.4
75°	1151.8	1150.9	1147.1	1147.3	1144.0	1145.1	1141.0	1138.6	1129.1	1120.7	1107.2
77.5°	1031.3	1029.3	1023.7	1021.7	1015.5	1013.0	1005.1	1001.2	991.6	984.9	973.2
80°	896.8	894.7	887.5	883.5	873.9	867.7	856.2	849.5	838.4	831.9	820.6
82.5°	741.3	742.1	734.8	729.9	716.0	705.4	690.0	681.6	669.4	663.0	651.4
85°	527.2	519.7	523.7	523.3	514.7	505.5	493.0	484.1	473.8	467.7	459.5
87.5°	289.2	290.9	288.9	287.1	281.0	276.3	266.5	261.3	253.8	250.1	244.0
90°	57.2	58.4	52.5	53.9	48.2	46.9	40.1	39.9	33.8	33.2	28.3
92.5°	6.6	6.6	6.9	6.6	6.9	6.9	6.9	6.9	6.9	6.6	6.9
95°	7.2	7.4	7.4	7.4	7.4	7.4	7.6	7.6	7.6	7.6	7.6
97.5°	8.2	8.2	8.2	8.3	8.3	8.3	8.5	8.5	8.5	8.5	8.5
100°	9.2	9.4	9.4	9.4	9.5	9.5	9.6	9.6	9.8	9.8	9.8
102.5°	10.3	10.5	10.6	10.8	11.1	11.1	11.2	11.2	11.4	11.4	11.4
105°	11.7	11.9	12.4	12.6	12.7	12.8	13.2	13.2	13.4	13.5	13.5
107.5°	13.7	13.9	14.3	14.6	14.8	15.3	15.5	15.6	15.7	15.9	16.1
110°	15.7	16.1	16.8	17.0	17.5	17.9	18.2	18.5	18.8	19.0	19.5



TEST NUMBER: P1444489
 CATALOG NUMBER: EHBR1-54-UNV-TA-L830

CANDELA DISTRIBUTION (continued):

	137.5°	140°	142.5°	145°	147.5°	150°	152.5°	155°	157.5°	160°	162.5°
112.5°	18.5	19.0	19.8	20.1	20.7	21.1	21.7	22.0	22.4	22.9	23.1
115°	21.7	22.4	23.1	23.8	24.4	25.1	25.8	26.0	26.5	27.0	27.5
117.5°	25.4	26.2	27.2	28.0	28.8	29.4	30.3	30.9	31.6	32.1	32.7
120°	29.9	30.9	31.7	32.7	33.6	34.6	35.4	36.2	36.8	37.7	38.4
122.5°	34.8	35.9	37.2	37.9	39.2	40.1	41.3	42.0	42.9	43.9	44.9
125°	40.6	41.7	42.9	44.0	45.1	46.4	47.6	48.4	49.7	50.5	51.8
127.5°	46.8	48.0	49.4	50.5	52.0	53.1	54.3	55.4	56.6	57.7	59.2
130°	53.6	54.7	56.3	57.4	58.8	60.1	61.4	62.8	64.0	65.5	66.9
132.5°	60.8	62.2	63.7	64.8	66.4	67.5	69.0	70.3	71.9	73.2	74.7
135°	68.7	69.8	71.3	72.4	74.0	75.1	76.5	78.0	79.6	81.0	82.7
137.5°	76.4	77.6	79.0	80.1	81.6	82.7	84.3	85.5	87.3	88.6	90.6
140°	84.3	85.4	86.6	87.7	89.0	90.1	91.7	92.9	94.6	96.0	97.8
142.5°	91.8	92.6	93.8	94.7	96.0	96.9	98.4	99.9	101.4	102.9	104.5
145°	99.1	99.9	100.9	101.6	102.6	103.7	105.2	106.5	107.9	109.4	111.0
147.5°	105.8	106.5	107.4	108.3	109.2	110.0	111.5	112.6	114.0	115.5	116.9
150°	112.4	112.9	113.5	114.2	115.1	116.2	117.3	118.4	120.0	121.3	122.5
152.5°	118.2	118.7	119.3	120.2	120.9	122.0	123.1	124.2	125.4	126.5	128.0
155°	124.2	124.5	125.3	126.1	127.0	127.7	128.8	129.8	131.0	132.2	133.3
157.5°	130.3	130.6	131.4	132.2	133.0	133.9	135.0	135.7	136.9	137.9	138.8
160°	136.6	137.0	137.9	138.6	139.5	140.2	141.3	142.0	142.9	144.0	144.9
162.5°	143.3	144.0	144.7	145.2	146.2	147.0	148.0	148.7	149.6	150.3	151.4
165°	150.5	151.2	152.0	152.5	153.2	153.8	154.7	155.4	156.3	156.8	157.7
167.5°	158.3	158.6	159.1	159.5	160.4	160.8	161.7	162.1	162.9	163.5	164.2
170°	164.6	164.9	165.1	165.7	166.2	166.6	167.1	167.4	168.2	168.7	169.4
172.5°	170.3	170.3	170.9	170.9	171.3	171.4	172.0	172.3	172.5	173.1	173.4
175°	175.0	175.0	175.2	175.2	175.4	175.4	175.8	176.1	176.3	176.5	176.6
177.5°	177.9	177.9	177.9	177.9	178.2	178.2	178.3	178.3	178.5	178.5	178.7
180°	179.9	179.9	179.9	179.9	179.9	179.9	179.9	179.9	179.9	179.9	179.9



TEST NUMBER: P1444489
 CATALOG NUMBER: EHBR1-54-UNV-TA-L830

CANDELA DISTRIBUTION (continued):

	165°	167.5°	170°	172.5°	175°	177.5°	180°	182.5°	185°	187.5°	190°
0°	43397.9	43397.9	43397.9	43397.9	43397.9	43397.9	43397.9	43397.9	43397.9	43397.9	43397.9
2.5°	43253.7	43253.3	43251.9	43249.9	43248.0	43249.2	43251.0	43256.0	43264.7	43277.3	43293.7
5°	43102.0	43110.8	43115.8	43116.4	43111.9	43109.2	43113.3	43125.2	43149.2	43189.5	43243.8
7.5°	42942.8	42953.6	42970.4	42982.9	42985.4	42982.3	42982.9	43001.6	43045.8	43124.1	43234.0
10°	42772.7	42740.4	42757.5	42788.7	42813.4	42817.9	42821.0	42843.0	42907.6	43026.0	43202.5
12.5°	42615.8	42513.5	42493.7	42521.8	42559.5	42571.5	42568.2	42577.6	42653.4	42810.0	43055.9
15°	42409.2	42216.7	42151.0	42158.2	42204.6	42221.4	42209.1	42190.5	42264.3	42455.6	42773.9
17.5°	42075.0	41764.6	41643.6	41638.3	41692.7	41707.1	41677.3	41619.4	41692.1	41930.7	42325.9
20°	41566.9	41108.7	40881.0	40844.7	40903.8	40886.6	40826.9	40739.4	40835.0	41125.1	41595.0
22.5°	40653.5	40072.9	39683.9	39558.3	39629.0	39581.9	39494.8	39383.1	39510.0	39839.7	40363.1
25°	39161.0	38490.1	37957.4	37658.6	37714.9	37630.4	37535.7	37400.3	37551.6	37930.1	38506.1
27.5°	36967.1	36192.2	35532.1	35037.4	35055.6	34945.0	34835.8	34660.6	34849.5	35297.4	35947.2
30°	34049.8	33153.2	32349.3	31677.0	31616.8	31509.6	31397.8	31167.8	31404.2	31940.5	32699.8
32.5°	30386.3	29390.7	28461.9	27611.8	27451.5	27346.7	27247.2	26982.5	27292.0	27917.3	28789.7
35°	26101.9	25041.3	24034.4	23063.5	22797.8	22693.1	22606.1	22352.4	22738.8	23419.1	24361.3
37.5°	21399.1	20315.7	19316.0	18320.4	17945.0	17803.0	17739.8	17573.6	18019.3	18692.2	19638.3
40°	16571.3	15564.0	14667.6	13788.3	13360.3	13143.1	13109.9	13079.6	13510.5	14094.4	14953.1
42.5°	12055.0	11242.3	10551.1	9879.0	9491.2	9194.5	9194.3	9284.4	9672.3	10109.6	10771.8
45°	8338.8	7793.4	7353.0	6903.9	7023.9	6432.4	6780.0	6601.5	6793.3	7075.2	7505.8
47.5°	5732.1	5434.4	5192.5	4941.6	4758.7	4584.1	4599.3	4711.9	4892.5	5059.8	5283.9
50°	4177.7	4026.1	3902.9	3772.6	3681.5	3604.5	3609.0	3657.8	3752.6	3840.8	3958.1
52.5°	3273.5	3189.9	3123.0	3051.0	3003.2	2964.9	2966.9	2990.6	3042.0	3092.3	3159.5
55°	2698.2	2688.1	2601.1	2536.4	2511.8	2486.0	2490.7	2500.1	2534.9	2564.4	2608.9
57.5°	2261.0	2222.0	2195.9	2161.8	2146.2	2128.2	2132.2	2135.8	2159.1	2178.9	2210.9
60°	1952.4	1924.7	1906.3	1883.1	1872.8	1861.3	1864.0	1866.0	1881.0	1893.8	1916.9
62.5°	1747.3	1722.6	1706.5	1688.6	1681.4	1673.7	1675.5	1676.1	1685.4	1694.9	1712.3
65°	1590.1	1570.4	1557.1	1541.6	1534.0	1526.0	1526.8	1526.8	1534.7	1541.6	1554.7
67.5°	1423.7	1408.9	1400.3	1388.0	1382.9	1374.7	1374.5	1371.9	1377.1	1379.9	1388.7
70°	1290.2	1275.3	1264.2	1252.5	1246.0	1238.8	1238.9	1239.1	1245.1	1251.3	1262.8
72.5°	1207.7	1193.5	1183.6	1173.3	1167.2	1161.1	1159.9	1159.4	1163.7	1167.0	1174.6
75°	1098.5	1087.1	1081.3	1071.7	1066.8	1059.9	1058.8	1055.6	1057.6	1058.3	1063.9
77.5°	966.0	955.3	950.6	940.7	936.7	928.8	928.2	924.6	926.3	925.1	929.5
80°	814.9	805.2	802.6	794.5	792.6	785.3	784.2	779.9	781.2	777.8	779.4
82.5°	646.4	637.4	635.5	628.1	628.1	621.5	621.1	614.6	614.6	609.0	600.0
85°	455.3	448.8	446.0	439.9	438.1	432.9	430.0	423.8	421.5	417.5	416.3
87.5°	240.3	236.1	232.4	229.5	224.2	214.7	213.9	207.3	207.8	203.2	203.5
90°	28.3	24.0	24.2	20.2	20.1	17.7	17.9	16.8	16.4	15.5	15.3
92.5°	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9
95°	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.7	7.7
97.5°	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.7	8.7	8.7	8.7
100°	9.8	9.8	9.8	9.8	9.8	9.8	9.8	10.1	10.1	10.1	10.1
102.5°	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.7	11.7
105°	13.5	13.7	13.7	13.7	13.7	13.7	13.7	13.9	13.9	13.9	14.0
107.5°	16.1	16.4	16.4	16.6	16.4	16.6	16.6	16.8	16.8	16.8	16.8
110°	19.5	19.6	19.8	20.0	20.0	20.1	20.1	20.2	20.2	20.2	20.2



TEST NUMBER: P1444489
 CATALOG NUMBER: EHBR1-54-UNV-TA-L830

CANDELA DISTRIBUTION (continued):

	165°	167.5°	170°	172.5°	175°	177.5°	180°	182.5°	185°	187.5°	190°
112.5°	23.3	23.6	23.8	24.2	24.2	24.4	24.4	24.7	24.7	24.9	24.7
115°	28.0	28.3	28.8	29.1	29.3	29.6	29.6	30.1	30.1	30.1	30.1
117.5°	33.2	33.8	34.3	34.8	35.0	35.5	35.7	35.9	35.9	36.2	35.9
120°	39.0	39.9	40.6	41.0	41.7	42.2	42.4	42.8	42.8	42.8	42.6
122.5°	45.7	46.6	47.3	48.1	48.7	49.4	49.7	50.0	50.0	50.2	49.8
125°	52.5	53.9	54.7	55.6	56.3	57.2	57.4	58.1	58.1	58.1	57.7
127.5°	60.3	61.4	62.4	63.7	64.4	65.1	65.7	66.1	66.1	66.1	65.8
130°	68.0	69.6	70.6	71.9	72.7	73.5	74.0	74.5	74.5	74.7	74.3
132.5°	76.1	77.7	79.0	80.3	81.0	82.1	82.5	83.2	83.2	83.3	82.8
135°	84.3	85.7	87.0	88.6	89.5	90.6	91.0	91.7	91.7	91.7	91.2
137.5°	92.0	93.8	95.1	96.4	97.5	98.4	99.1	99.6	99.6	99.9	99.4
140°	99.2	101.0	102.5	103.7	105.0	106.1	106.6	107.3	107.3	107.3	106.8
142.5°	106.1	107.7	109.2	110.6	111.7	112.8	113.4	113.9	113.9	113.9	113.5
145°	112.6	114.0	115.5	116.9	117.9	118.9	119.3	120.0	120.0	120.0	119.8
147.5°	118.4	120.0	121.1	122.4	123.4	124.3	125.0	125.3	125.4	125.4	125.3
150°	124.0	125.3	126.5	127.6	128.5	129.4	129.6	130.3	130.5	130.6	130.5
152.5°	129.2	130.3	131.4	132.4	133.3	133.9	134.4	135.0	135.4	135.7	135.7
155°	134.3	135.4	136.4	137.3	138.0	138.8	139.5	140.1	140.6	140.9	141.3
157.5°	139.8	140.9	141.7	142.7	143.3	144.3	144.9	145.8	146.2	146.9	147.2
160°	145.8	146.9	147.5	148.5	149.2	150.1	150.7	151.5	152.1	152.6	153.2
162.5°	152.1	153.2	153.6	154.6	155.4	156.1	156.8	157.6	158.3	158.9	159.4
165°	158.6	159.4	160.0	160.8	161.7	162.4	162.9	163.7	164.2	164.9	165.3
167.5°	164.9	165.7	166.2	166.9	167.4	168.2	168.9	169.5	170.0	170.5	170.9
170°	169.8	170.5	171.1	171.6	172.3	172.9	173.2	173.7	174.2	174.7	175.2
172.5°	173.7	174.3	174.7	175.4	175.6	176.1	176.5	177.0	177.4	177.7	177.9
175°	176.8	177.2	177.4	177.7	177.9	178.2	178.5	178.7	179.2	179.4	179.7
177.5°	178.8	179.2	179.4	179.4	179.5	179.5	179.7	179.7	179.8	179.9	179.9
180°	179.9	179.9	179.9	179.9	179.9	179.9	179.9	179.9	179.9	179.9	179.9



TEST NUMBER: P1444489
 CATALOG NUMBER: EHBR1-54-UNV-TA-L830

CANDELA DISTRIBUTION (continued):

	192.5°	195°	197.5°	200°	202.5°	205°	207.5°	210°	212.5°	215°	217.5°
0°	43397.9	43397.9	43397.9	43397.9	43397.9	43397.9	43397.9	43397.9	43397.9	43397.9	43397.9
2.5°	43316.9	43338.5	43371.7	43401.7	43447.0	43482.7	43536.3	43576.9	43637.4	43676.7	43742.4
5°	43320.7	43405.5	43517.0	43625.6	43756.4	43875.1	44022.6	44148.2	44296.5	44417.4	44569.1
7.5°	43382.0	43545.3	43741.3	43938.7	44161.9	44370.7	44606.0	44818.9	45051.7	45248.7	45463.8
10°	43427.1	43679.2	43967.9	44258.4	44564.1	44848.2	45134.9	45382.8	45614.4	45805.0	45973.4
12.5°	43365.9	43713.1	44083.6	44441.2	44781.2	45075.3	45322.0	45512.6	45644.1	45733.4	45754.3
15°	43157.6	43575.5	43978.2	44334.4	44616.6	44834.2	44946.8	44999.5	44942.9	44849.0	44642.4
17.5°	42768.5	43209.3	43569.3	43850.3	43999.5	44058.5	43965.2	43802.8	43485.7	43133.7	42625.2
20°	42055.2	42465.9	42727.0	42880.3	42840.5	42692.9	42340.7	41912.6	41279.4	40604.5	39713.9
22.5°	40804.1	41163.0	41302.2	41313.6	41070.3	40700.9	40065.7	39331.3	38332.3	37293.8	36016.5
25°	38926.0	39240.4	39262.4	39138.9	38693.6	38095.1	37162.2	36123.3	34765.9	33382.1	31781.6
27.5°	36379.0	36680.5	36606.7	36376.2	35757.9	34957.1	33762.7	32420.7	30747.2	29112.7	27342.3
30°	33177.1	33499.6	33413.0	33117.3	32381.9	31435.4	30030.0	28470.9	26612.8	24867.1	23073.0
32.5°	29345.5	29753.2	29693.4	29412.4	28645.0	27632.1	26107.2	24453.4	22552.5	20832.2	19086.9
35°	24990.4	25485.4	25511.0	25327.3	24614.9	23613.7	22107.9	20507.3	18686.5	17063.3	15451.0
37.5°	20298.2	20872.1	20990.0	20940.4	20350.0	19466.2	18094.2	16658.3	15045.2	13622.7	12243.8
40°	15580.0	16160.9	16362.5	16422.4	15986.6	15302.1	14176.1	13017.1	11702.1	10549.3	9454.5
42.5°	11277.3	11792.3	11987.1	12109.7	11837.7	11381.2	10559.8	9718.2	8754.8	7923.3	7126.2
45°	7832.3	8196.6	8344.8	8468.1	8319.9	8062.4	7543.8	7017.4	6381.4	5838.1	5323.7
47.5°	5476.0	5676.9	5774.7	5834.6	5777.2	5642.8	5360.6	5055.6	4696.7	4379.1	4073.8
50°	4058.9	4165.8	4217.0	4251.6	4209.8	4135.1	3982.3	3816.3	3619.2	3439.3	3263.6
52.5°	3216.6	3277.9	3308.3	3326.9	3302.9	3257.3	3168.3	3069.9	2951.7	2840.6	2782.2
55°	2709.8	2706.6	2776.9	2743.0	2776.9	2701.1	2685.2	2577.0	2478.8	2409.7	2334.8
57.5°	2234.7	2266.6	2280.0	2295.1	2285.4	2271.5	2233.7	2195.0	2143.2	2099.9	2053.7
60°	1934.4	1960.6	1975.4	1990.4	1989.4	1984.2	1962.4	1939.2	1906.9	1881.0	1853.0
62.5°	1727.6	1750.2	1764.9	1779.2	1780.5	1778.3	1761.9	1745.7	1723.7	1707.4	1688.1
65°	1564.8	1580.7	1590.7	1602.1	1601.5	1598.4	1583.4	1570.1	1551.9	1540.7	1526.6
67.5°	1394.5	1406.6	1414.2	1425.0	1427.1	1427.7	1419.6	1413.3	1404.4	1401.2	1396.4
70°	1273.4	1288.0	1300.3	1314.0	1321.4	1325.0	1321.4	1318.2	1313.1	1310.8	1307.1
72.5°	1181.7	1194.0	1203.7	1216.1	1223.0	1228.0	1225.3	1223.5	1219.0	1218.4	1215.8
75°	1067.8	1076.4	1081.8	1091.1	1094.8	1099.5	1097.4	1098.5	1097.1	1100.6	1100.4
77.5°	930.9	937.2	939.8	946.5	947.2	952.8	954.1	960.7	965.4	975.7	981.1
80°	776.8	780.8	780.8	787.8	790.9	800.3	804.8	815.6	820.6	829.7	830.6
82.5°	603.4	598.8	603.4	600.5	609.4	620.0	621.5	630.7	632.7	638.6	634.1
85°	412.5	412.2	408.5	409.2	406.4	407.7	406.2	407.8	406.3	406.4	402.2
87.5°	197.6	199.4	195.1	196.5	192.4	194.3	190.6	193.5	189.1	189.8	183.3
90°	14.6	14.3	13.7	13.5	13.9	13.4	13.2	12.8	13.2	12.7	12.7
92.5°	6.9	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.2	7.1	7.1
95°	7.7	7.7	7.7	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1
97.5°	9.0	9.0	9.0	9.0	9.2	9.2	9.2	9.2	9.2	9.2	9.0
100°	10.3	10.3	10.3	10.5	10.5	10.5	10.5	10.5	10.5	10.3	10.3
102.5°	11.9	11.9	11.9	12.2	12.2	12.2	12.2	12.2	11.9	11.9	11.7
105°	14.0	14.0	14.3	14.3	14.3	14.3	14.3	14.3	14.0	13.9	13.9
107.5°	16.9	16.9	17.0	17.0	17.0	17.0	16.9	16.8	16.8	16.6	16.1
110°	20.6	20.2	20.6	20.6	20.6	20.2	20.2	20.0	19.8	19.5	19.1



TEST NUMBER: P1444489
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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°	24.9	24.7	24.7	24.4	24.4	24.2	24.2	23.8	23.6	23.0	22.7
115°	30.1	29.6	29.6	29.3	29.3	28.9	28.5	28.1	27.8	27.2	26.9
117.5°	35.7	35.5	35.4	34.8	34.6	34.1	33.6	33.2	32.7	32.1	31.6
120°	42.4	42.0	41.7	41.0	40.7	39.9	39.5	38.8	38.3	37.5	36.6
122.5°	49.7	49.1	48.7	48.1	47.6	46.6	46.0	45.1	44.6	43.6	42.8
125°	57.4	56.8	56.3	55.5	54.7	53.9	53.1	52.1	51.1	50.2	49.2
127.5°	65.7	64.8	64.4	63.4	62.6	61.4	60.5	59.4	58.5	57.2	56.3
130°	74.0	73.2	72.7	71.4	70.8	69.3	68.5	67.3	66.1	65.0	63.9
132.5°	82.5	81.7	81.0	79.8	79.0	77.7	76.9	75.4	74.3	73.1	72.0
135°	90.9	90.1	89.5	88.3	87.3	85.9	85.0	83.6	82.5	81.4	80.3
137.5°	99.1	98.1	97.3	96.4	95.4	94.0	93.1	91.8	90.9	89.5	88.6
140°	106.5	105.7	105.0	104.1	103.1	102.0	101.0	99.9	98.9	97.8	96.9
142.5°	113.1	112.4	111.7	110.8	110.0	108.8	108.3	107.3	106.3	105.4	104.5
145°	119.3	118.7	118.2	117.3	116.8	115.8	115.1	114.2	113.7	112.8	112.1
147.5°	125.1	124.5	124.2	123.6	123.2	122.4	122.1	121.3	120.9	120.2	119.8
150°	130.5	130.3	130.1	129.6	129.4	128.8	128.7	128.1	128.0	127.4	127.2
152.5°	135.7	135.7	135.7	135.5	135.5	135.4	135.3	135.0	134.8	134.4	134.3
155°	141.5	141.7	141.8	141.8	141.8	141.8	141.8	141.7	141.7	141.5	141.5
157.5°	147.5	147.8	148.1	148.3	148.5	148.5	148.5	148.5	148.5	148.3	148.3
160°	153.6	154.1	154.4	154.6	154.9	154.9	155.2	154.9	155.2	154.9	154.7
162.5°	159.9	160.4	160.6	160.8	161.1	161.1	161.5	161.5	161.5	161.1	161.1
165°	166.0	166.2	166.6	166.8	167.1	167.1	167.3	167.3	167.3	167.1	167.1
167.5°	171.4	171.6	172.1	172.3	172.5	172.5	173.1	172.9	172.9	172.9	172.9
170°	175.4	175.8	176.1	176.3	176.6	176.6	176.8	176.8	177.0	176.8	176.8
172.5°	178.3	178.5	178.8	179.2	179.4	179.4	179.5	179.5	179.7	179.7	179.7
175°	179.8	179.9	180.3	180.5	180.6	180.8	180.8	181.0	181.0	181.0	181.0
177.5°	180.3	180.5	180.5	180.6	180.8	180.8	181.0	181.0	181.3	181.3	181.3
180°	179.9	179.9	179.9	179.9	179.9	179.9	179.9	179.9	179.9	179.9	179.9



TEST NUMBER: P1444489
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CANDELA DISTRIBUTION (continued):

	220°	222.5°	225°	227.5°	230°	232.5°	235°	237.5°	240°	242.5°	245°
0°	43397.9	43397.9	43397.9	43397.9	43397.9	43397.9	43397.9	43397.9	43397.9	43397.9	43397.9
2.5°	43783.1	43512.7	43477.1	43496.0	43541.2	43557.9	43606.7	43620.0	43669.1	43681.2	43728.3
5°	44686.5	44329.2	44347.0	44432.9	44563.0	44640.5	44768.4	44835.3	44957.3	45012.9	45123.2
7.5°	45639.2	45358.5	45446.0	45590.9	45768.8	45892.0	46045.6	46145.7	46278.0	46360.3	46466.2
10°	46106.9	46030.0	46126.4	46240.4	46341.9	46421.3	46486.4	46538.6	46572.7	46604.6	46618.7
12.5°	45750.9	45870.0	45886.4	45875.3	45808.1	45756.7	45641.4	45563.1	45424.0	45339.2	45173.7
15°	44431.5	44693.1	44548.2	44328.8	44007.8	43740.2	43362.2	43080.7	42687.1	42420.2	42025.2
17.5°	42115.7	42446.0	42068.4	41560.8	40915.1	40362.6	39674.7	39128.6	38444.6	37947.1	37308.7
20°	38855.7	39164.4	38490.9	37649.4	36650.4	35809.7	34818.3	34027.4	33106.0	32420.7	31593.7
22.5°	34796.6	35016.5	34067.7	32933.3	31660.6	30610.3	29424.9	28476.7	27425.2	26641.8	25760.0
25°	30306.0	30365.4	29227.3	27920.3	26501.9	25321.5	24056.0	23059.0	21986.7	21192.7	20327.1
27.5°	25773.6	25686.6	24456.5	23070.8	21578.7	20351.8	19117.5	18183.2	17244.1	16528.8	15783.2
30°	21495.7	21284.9	20007.7	18583.4	17135.0	16035.3	15010.7	14260.4	13513.2	12945.9	12347.3
32.5°	17572.7	17275.4	16032.1	14697.7	13477.3	12628.7	11868.9	11301.1	10697.8	10218.5	9716.2
35°	14097.9	13781.2	12679.9	11548.5	10624.8	9999.3	9402.1	8936.3	8424.0	8019.7	7583.5
37.5°	11115.8	10856.3	9933.7	9043.5	8344.8	7860.0	7370.7	6990.0	6566.7	6388.8	5922.7
40°	8581.4	8399.9	7678.6	7022.3	6497.7	6270.0	5773.3	5417.6	5101.3	4840.4	4587.7
42.5°	6693.6	6629.4	5927.4	5415.6	5046.1	4759.2	4482.4	4257.7	4039.0	3859.1	3689.3
45°	4912.1	4861.3	4549.6	4254.2	4002.5	3801.9	3614.9	3460.3	3317.3	3198.8	3091.0
47.5°	3825.1	3808.8	3629.3	3446.2	3287.6	3158.7	3037.3	2934.6	2839.7	2760.6	2734.9
50°	3111.1	3109.0	3003.7	2890.6	2777.6	2703.2	2625.7	2565.1	2504.1	2456.6	2406.5
52.5°	2643.4	2632.0	2560.9	2491.1	2424.0	2375.1	2325.6	2286.8	2246.4	2217.2	2185.9
55°	2275.7	2287.7	2246.6	2204.9	2163.0	2132.5	2097.9	2072.3	2044.6	2026.1	2007.3
57.5°	2020.3	2036.2	2014.7	1991.0	1965.4	1945.5	1921.6	1903.9	1885.3	1873.6	1862.6
60°	1834.5	1851.9	1843.2	1831.3	1815.5	1803.6	1788.4	1778.5	1766.6	1760.1	1753.9
62.5°	1676.9	1698.6	1695.5	1689.9	1679.8	1673.1	1664.8	1660.5	1652.6	1649.7	1646.8
65°	1519.6	1544.1	1543.6	1540.8	1535.2	1533.3	1528.1	1527.1	1523.1	1524.8	1524.4
67.5°	1395.9	1417.1	1421.8	1425.2	1425.0	1426.3	1425.9	1427.9	1427.9	1431.0	1432.9
70°	1306.6	1321.4	1325.0	1328.5	1329.5	1332.4	1332.4	1334.2	1333.7	1336.2	1336.6
72.5°	1216.4	1235.9	1239.5	1242.4	1242.4	1245.1	1243.6	1243.1	1239.3	1238.4	1235.7
75°	1104.2	1129.1	1134.5	1138.1	1138.6	1141.0	1137.6	1135.5	1129.1	1126.5	1122.0
77.5°	986.9	1012.8	1016.6	1017.9	1015.9	1016.3	1009.3	1004.4	996.2	992.8	988.5
80°	834.2	872.4	875.4	873.0	867.1	866.1	859.1	854.7	844.9	841.5	837.8
82.5°	634.8	679.6	685.9	688.6	683.7	684.8	678.3	675.6	666.7	665.1	659.1
85°	400.8	445.5	452.9	451.8	447.0	445.9	441.9	443.3	442.5	444.8	446.2
87.5°	184.2	227.4	237.9	234.5	234.0	231.0	224.1	226.6	230.8	233.5	233.7
90°	12.6	25.4	24.9	26.4	23.6	24.4	22.0	23.6	21.9	23.3	21.7
92.5°	7.1	7.1	7.1	7.1	7.1	7.1	7.1	6.9	7.1	6.9	7.1
95°	8.1	7.7	7.7	7.7	7.6	7.6	7.6	7.6	7.6	7.6	7.6
97.5°	9.0	8.7	8.5	8.5	8.5	8.3	8.3	8.3	8.3	8.2	8.2
100°	10.3	9.6	9.5	9.5	9.4	9.4	9.4	9.2	9.2	9.2	9.0
102.5°	11.6	11.1	10.8	10.6	10.5	10.3	10.3	10.1	10.1	9.8	9.8
105°	13.5	12.7	12.4	11.9	11.7	11.6	11.4	11.2	11.1	10.8	10.8
107.5°	15.9	14.6	14.0	13.7	13.4	13.2	12.7	12.6	12.2	11.9	11.7
110°	18.8	17.0	16.4	15.7	15.5	14.8	14.5	14.0	13.7	13.5	13.2



TEST NUMBER: P1444489
 CATALOG NUMBER: EHBR1-54-UNV-TA-L830

CANDELA DISTRIBUTION (continued):

	220°	222.5°	225°	227.5°	230°	232.5°	235°	237.5°	240°	242.5°	245°
112.5°	22.2	20.0	19.0	18.2	17.7	17.0	16.6	15.9	15.6	15.0	14.8
115°	26.0	23.3	22.2	21.3	20.6	19.8	19.0	18.5	17.7	17.0	16.8
117.5°	30.9	27.5	26.0	24.9	24.2	23.0	22.2	21.3	20.6	19.8	19.1
120°	35.9	32.1	30.5	29.3	28.3	27.0	26.0	24.9	24.0	23.0	22.2
122.5°	41.8	37.7	35.7	34.4	33.2	31.7	30.5	29.3	28.1	27.0	26.0
125°	48.2	43.6	41.5	40.1	38.8	37.3	35.9	34.4	33.3	32.0	30.9
127.5°	55.2	50.2	48.1	46.6	45.1	43.6	42.2	40.6	39.2	37.7	36.5
130°	62.8	57.4	55.2	53.6	52.3	50.5	49.2	47.6	46.0	44.6	43.1
132.5°	70.8	65.1	62.9	61.4	60.1	58.4	57.1	55.4	53.9	52.1	50.9
135°	79.0	73.2	70.9	69.3	68.2	66.6	65.1	63.5	62.2	60.5	59.4
137.5°	87.3	81.2	79.2	77.7	76.5	75.1	74.0	72.4	71.1	69.3	68.2
140°	95.7	89.5	87.3	86.2	85.2	83.8	82.7	81.4	80.3	79.0	77.7
142.5°	103.6	97.1	95.1	94.0	93.3	92.2	91.5	90.4	89.5	88.0	87.0
145°	111.5	104.5	102.6	101.6	101.2	100.3	99.6	98.7	98.0	96.9	96.2
147.5°	119.1	111.7	109.7	109.2	108.8	107.9	107.6	106.8	106.5	105.7	105.2
150°	126.5	118.4	116.0	115.7	115.1	114.8	114.6	114.0	113.9	113.4	113.1
152.5°	133.9	124.0	121.3	120.9	120.9	120.5	120.3	120.2	120.2	120.0	119.8
155°	141.1	130.3	127.2	126.7	126.5	126.5	126.3	126.3	126.3	126.3	126.5
157.5°	148.0	136.4	133.3	132.7	132.5	132.4	132.2	132.2	132.2	132.2	132.5
160°	154.6	142.8	139.6	139.0	138.8	138.4	138.2	138.0	138.0	138.0	138.2
162.5°	160.8	149.4	146.4	145.8	145.2	144.9	144.7	144.3	144.3	144.1	144.3
165°	166.8	156.5	153.4	152.8	152.5	152.0	151.7	151.4	151.2	151.0	151.0
167.5°	172.5	163.3	160.8	160.4	159.9	159.4	159.4	158.8	158.8	158.4	158.4
170°	176.6	169.4	167.3	166.9	166.9	166.6	166.3	166.2	166.0	165.7	165.7
172.5°	179.5	174.2	172.5	172.4	172.4	172.3	172.3	172.1	172.1	172.1	172.1
175°	181.0	177.7	177.0	176.8	176.8	176.8	176.8	176.8	176.8	176.8	177.0
177.5°	181.4	180.6	180.3	180.3	180.3	180.3	180.3	180.3	180.3	180.5	180.5
180°	179.9	179.9	179.9	179.9	179.9	179.9	179.9	179.9	179.9	179.9	179.9



TEST NUMBER: P1444489
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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°	43397.9	43397.9	43397.9	43397.9	43397.9	43397.9	43397.9	43397.9	43397.9	43397.9	43397.9
2.5°	43737.1	43788.0	43784.2	43831.9	43829.5	43874.3	43865.3	43904.0	43895.2	43928.4	43908.9
5°	45171.8	45268.8	45300.7	45388.2	45406.4	45484.8	45486.4	45548.6	45541.1	45589.8	45563.9
7.5°	46529.0	46619.4	46662.4	46730.4	46764.4	46820.6	46842.7	46889.0	46900.2	46927.5	46926.7
10°	46643.4	46643.1	46664.4	46654.8	46673.9	46662.9	46686.0	46677.7	46712.0	46703.1	46729.0
12.5°	45102.3	44949.4	44893.6	44756.1	44726.1	44608.2	44616.6	44541.0	44577.5	44531.0	44610.1
15°	41790.1	41435.3	41260.1	40951.6	40854.7	40610.9	40591.2	40429.2	40472.9	40388.2	40512.0
17.5°	36895.7	36337.1	36030.6	35580.0	35401.2	35056.3	34987.2	34778.8	34811.1	34706.1	34855.7
20°	31060.2	30385.1	29998.5	29477.6	29245.2	28834.1	28725.0	28491.8	28521.0	28416.5	28585.7
22.5°	25158.1	24451.6	24015.1	23469.0	23172.2	22785.5	22669.6	22435.3	22448.6	22350.5	22513.2
25°	19734.3	19056.9	18633.2	18137.2	17879.7	17525.2	17403.3	17192.9	17204.8	17123.9	17269.9
27.5°	15265.9	14710.1	14355.5	13939.8	13709.0	13417.6	13298.7	13121.8	13121.3	13061.9	13184.0
30°	11929.5	11465.7	11147.3	10785.3	10568.5	10305.5	10190.6	10032.4	10025.5	9983.3	10080.4
32.5°	9340.5	8928.0	8637.7	8319.0	8124.4	7898.7	7790.0	7662.8	7651.2	7613.1	7692.7
35°	7261.0	6913.6	6664.0	6395.8	6415.5	6082.5	6137.9	5879.3	5809.1	5793.8	5853.0
37.5°	5611.9	5342.9	5140.1	4939.2	4803.1	4662.4	4586.6	4518.6	4510.8	4504.3	4545.8
40°	4392.6	4204.3	4056.8	3919.0	3825.3	3739.4	3692.0	3654.8	3645.9	3640.9	3666.0
42.5°	3555.2	3428.1	3333.0	3248.9	3192.0	3145.4	3119.3	3098.5	3091.6	3091.8	3106.6
45°	3003.7	2926.6	2865.3	2813.0	2776.7	2792.6	2745.7	2770.3	2737.8	2771.4	2749.2
47.5°	2645.2	2579.5	2541.6	2504.6	2482.6	2464.9	2465.5	2465.8	2472.7	2473.8	2481.1
50°	2368.5	2330.5	2304.1	2280.5	2269.1	2259.8	2263.0	2265.4	2272.2	2272.6	2278.0
52.5°	2163.8	2138.8	2122.9	2108.3	2103.1	2097.9	2100.1	2099.1	2102.2	2100.6	2104.9
55°	1997.2	1985.4	1980.4	1975.0	1975.7	1974.3	1975.2	1969.9	1966.7	1962.7	1966.4
57.5°	1860.4	1858.8	1862.2	1864.4	1870.7	1872.9	1874.4	1868.3	1862.5	1857.2	1860.2
60°	1755.0	1757.6	1766.0	1772.7	1781.8	1785.9	1788.6	1785.0	1780.8	1776.5	1779.0
62.5°	1651.1	1655.2	1665.2	1672.7	1683.6	1689.3	1695.5	1695.9	1697.5	1695.9	1697.6
65°	1530.5	1535.5	1544.5	1550.8	1560.9	1565.9	1572.4	1573.5	1577.0	1576.2	1579.3
67.5°	1438.9	1443.4	1451.0	1456.9	1465.9	1471.0	1476.6	1477.0	1478.2	1477.9	1480.8
70°	1341.1	1343.3	1350.1	1355.0	1364.0	1369.4	1375.8	1377.7	1381.7	1382.4	1385.6
72.5°	1236.8	1235.9	1239.9	1242.2	1248.9	1253.1	1261.3	1265.8	1272.5	1274.3	1276.7
75°	1123.3	1122.4	1127.1	1129.1	1134.9	1139.0	1148.2	1154.2	1164.6	1169.0	1167.9
77.5°	991.9	994.1	1003.1	1008.1	1015.9	1021.2	1033.1	1042.6	1061.7	1070.1	1061.6
80°	844.9	847.3	856.6	861.3	871.4	877.9	891.2	902.3	919.5	923.2	918.3
82.5°	664.2	664.9	673.3	676.8	690.0	699.4	716.4	725.2	735.9	734.2	733.0
85°	452.9	459.0	469.5	480.0	496.0	511.4	527.4	540.6	531.2	545.9	529.5
87.5°	242.0	241.4	255.5	253.3	275.9	288.9	302.7	309.3	316.7	315.2	315.4
90°	23.8	22.2	24.2	22.2	25.3	23.0	27.2	25.3	30.3	27.4	32.7
92.5°	6.9	7.1	6.9	7.1	6.9	7.1	6.9	6.9	6.9	6.9	6.9
95°	7.6	7.6	7.6	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4
97.5°	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.1	8.1	8.1
100°	9.0	9.0	9.0	9.0	8.7	8.7	8.7	8.7	8.7	8.7	8.7
102.5°	9.6	9.6	9.6	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5
105°	10.6	10.6	10.5	10.5	10.3	10.3	10.3	10.3	10.3	10.3	10.3
107.5°	11.7	11.6	11.4	11.4	11.2	11.2	11.2	11.2	11.2	11.2	11.2
110°	12.8	12.7	12.6	12.6	12.4	12.2	12.2	12.2	12.2	12.2	12.2



TEST NUMBER: P1444489
 CATALOG NUMBER: EHBR1-54-UNV-TA-L830

CANDELA DISTRIBUTION (continued):

	247.5°	250°	252.5°	255°	257.5°	260°	262.5°	265°	267.5°	270°	272.5°
112.5°	14.5	14.0	13.9	13.7	13.5	13.5	13.4	13.4	13.4	13.4	13.4
115°	16.1	15.9	15.6	15.5	15.3	15.0	14.8	14.8	14.8	14.8	14.8
117.5°	18.5	18.0	17.7	17.3	17.0	16.9	16.8	16.8	16.6	16.8	16.8
120°	21.5	20.9	20.2	20.0	19.6	19.5	19.0	19.0	19.0	19.0	19.0
122.5°	25.1	24.3	23.6	23.1	22.7	22.4	22.0	22.0	22.0	22.0	22.0
125°	29.6	28.8	28.0	27.4	26.5	26.4	26.0	26.0	25.9	26.0	26.0
127.5°	35.2	34.3	33.2	32.5	31.7	31.4	31.0	30.9	30.9	31.0	31.0
130°	41.7	40.7	39.5	38.8	37.8	37.5	37.2	36.8	36.6	36.8	37.2
132.5°	49.2	48.1	46.9	46.0	45.1	44.7	44.0	44.0	43.9	44.0	44.2
135°	57.6	56.5	55.4	54.3	53.4	53.1	52.5	52.5	52.3	52.5	52.9
137.5°	66.8	65.8	64.5	63.7	62.8	62.4	61.7	61.6	61.6	61.7	62.2
140°	76.4	75.3	74.2	73.3	72.7	72.2	71.8	71.8	71.4	71.9	72.0
142.5°	85.9	85.2	84.1	83.5	82.7	82.3	82.1	82.1	81.7	82.1	82.5
145°	95.2	94.6	93.8	93.1	92.6	92.5	91.8	92.0	92.0	92.5	92.6
147.5°	104.3	104.1	103.2	102.9	102.3	102.3	102.0	102.1	102.1	102.5	102.6
150°	112.6	112.4	111.9	111.7	111.5	111.5	111.3	111.5	111.5	111.7	111.9
152.5°	119.6	119.6	119.3	119.3	119.1	119.3	119.3	119.6	119.8	120.2	120.3
155°	126.5	126.5	126.5	126.5	126.5	127.0	127.0	127.6	127.7	128.1	128.3
157.5°	132.5	132.8	132.8	133.3	133.5	133.9	133.9	134.6	134.8	135.4	135.7
160°	138.4	138.8	139.0	139.5	139.8	140.1	140.6	141.1	141.5	142.0	142.4
162.5°	144.3	144.7	144.9	145.2	145.8	146.0	146.5	147.2	147.5	148.1	148.7
165°	151.0	151.2	151.4	151.5	152.0	152.3	152.6	153.2	153.6	154.3	154.7
167.5°	158.3	158.4	158.3	158.4	158.6	158.9	159.1	159.5	159.9	160.6	160.8
170°	165.3	165.3	165.3	165.3	165.3	165.7	165.8	166.0	166.2	166.6	166.8
172.5°	172.0	172.0	171.6	172.0	171.6	172.0	172.0	172.1	172.1	172.3	172.3
175°	176.8	177.0	177.0	177.2	177.0	177.0	177.0	177.0	177.0	177.2	177.2
177.5°	180.5	180.6	180.6	180.6	180.6	180.8	180.8	180.8	180.8	180.6	180.6
180°	179.9	179.9	179.9	179.9	179.9	179.9	179.9	179.9	179.9	179.9	179.9



TEST NUMBER: P1444489
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CANDELA DISTRIBUTION (continued):

	275°	277.5°	280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°
0°	43397.9	43397.9	43397.9	43397.9	43397.9	43397.9	43397.9	43397.9	43397.9	43397.9	43397.9
2.5°	43941.2	43919.2	43941.7	43918.8	43941.7	43914.3	43932.9	43903.3	43910.9	43880.1	43888.0
5°	45602.6	45567.6	45586.2	45540.7	45545.6	45484.8	45483.7	45412.9	45394.2	45313.7	45278.3
7.5°	46946.2	46934.7	46941.2	46911.9	46908.5	46867.0	46847.2	46788.7	46751.9	46677.7	46627.0
10°	46733.5	46767.8	46776.6	46811.6	46818.8	46853.3	46860.5	46895.1	46902.4	46928.0	46928.3
12.5°	44606.5	44722.7	44750.5	44894.2	44954.6	45119.0	45207.2	45388.2	45495.9	45676.5	45787.5
15°	40508.6	40709.8	40790.1	41070.6	41225.8	41553.2	41758.9	42135.0	42400.4	42799.7	43084.6
17.5°	34868.8	35150.0	35276.9	35657.2	35905.5	36388.7	36737.2	37310.5	37749.5	38386.7	38891.7
20°	28614.7	28927.2	29099.4	29533.4	29826.2	30391.0	30825.9	31530.5	32118.1	32925.4	33616.0
22.5°	22564.3	22861.7	23052.9	23494.3	23824.1	24413.1	24899.1	25642.9	26301.2	27211.0	28038.9
25°	17325.1	17597.6	17770.5	18169.8	18479.5	19020.7	19484.9	20200.1	20844.3	21756.8	22605.8
27.5°	13244.9	13473.1	13639.7	13980.2	14253.2	14712.3	15111.0	15702.1	16257.1	17046.7	17802.6
30°	10140.1	10342.4	10504.4	10801.1	11054.2	11452.1	11802.7	12299.3	12758.6	13386.9	13988.2
32.5°	7748.6	7922.9	8067.3	8326.9	8556.6	8914.9	9230.8	9666.0	10060.3	10593.1	11087.8
35°	5908.0	6250.8	6226.5	6584.5	6642.1	6899.3	7181.1	7561.6	7910.8	8363.9	8784.9
37.5°	4585.7	4682.0	4785.3	4943.5	5109.8	5343.8	5581.8	6046.8	6217.3	6559.8	6908.3
40°	3697.8	3762.9	3831.1	3938.1	4054.5	4219.4	4392.8	4614.6	4841.8	5119.5	5403.0
42.5°	3126.2	3163.1	3206.4	3269.4	3341.1	3445.6	3561.6	3712.0	3870.1	4065.5	4264.9
45°	2793.1	2775.6	2788.5	2822.2	2865.5	2929.0	3002.2	3095.4	3198.3	3324.8	3459.6
47.5°	2482.6	2489.6	2493.4	2511.8	2534.9	2577.5	2621.9	2685.2	2807.2	2844.4	2917.9
50°	2277.4	2280.9	2279.7	2289.0	2300.7	2328.5	2357.2	2400.0	2442.8	2499.4	2553.5
52.5°	2105.5	2110.3	2109.7	2115.8	2122.1	2139.6	2157.8	2188.1	2216.1	2252.0	2283.1
55°	1969.8	1976.4	1979.0	1984.1	1987.1	1996.3	2003.5	2018.0	2029.9	2050.4	2069.2
57.5°	1865.4	1874.4	1878.6	1880.3	1876.7	1876.1	1873.8	1876.8	1879.2	1890.2	1900.8
60°	1783.2	1790.4	1791.5	1790.4	1783.7	1778.9	1771.1	1768.7	1767.5	1772.7	1778.5
62.5°	1697.1	1699.8	1698.0	1695.9	1688.1	1683.5	1675.5	1672.6	1669.8	1673.5	1676.6
65°	1578.2	1580.4	1578.2	1576.9	1569.9	1566.3	1559.5	1557.2	1553.3	1554.4	1553.7
67.5°	1481.5	1483.7	1482.0	1480.2	1475.4	1473.1	1468.1	1464.9	1460.2	1458.5	1455.3
70°	1385.1	1386.9	1384.2	1382.4	1377.0	1374.8	1370.2	1369.2	1365.5	1364.7	1361.0
72.5°	1274.3	1274.5	1270.6	1269.5	1265.5	1265.3	1263.3	1265.1	1265.0	1266.9	1266.1
75°	1161.0	1159.4	1154.5	1153.7	1150.7	1152.1	1150.0	1152.7	1153.1	1157.2	1157.7
77.5°	1047.3	1041.4	1032.3	1027.9	1021.8	1021.0	1017.5	1019.9	1019.0	1023.9	1025.8
80°	903.9	896.7	884.9	879.3	872.1	871.0	867.7	871.0	869.4	875.0	879.0
82.5°	721.6	715.4	703.2	698.7	690.4	691.1	687.5	691.1	690.6	699.0	703.8
85°	533.8	529.6	517.1	506.0	493.6	486.3	479.3	478.0	475.9	479.3	482.2
87.5°	308.4	304.4	294.7	288.2	266.5	267.4	258.9	258.4	256.4	254.4	258.9
90°	29.6	33.8	31.0	34.8	32.7	37.2	35.5	39.7	36.8	40.4	38.4
92.5°	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.6	6.9
95°	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4
97.5°	8.2	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.2	8.2	8.2
100°	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	9.0	9.0	9.0
102.5°	9.5	9.5	9.5	9.5	9.6	9.6	9.6	9.6	9.8	9.8	9.8
105°	10.3	10.3	10.5	10.5	10.5	10.5	10.6	10.6	10.8	10.8	11.1
107.5°	11.2	11.2	11.2	11.4	11.4	11.6	11.6	11.7	11.9	12.2	12.4
110°	12.2	12.4	12.4	12.6	12.6	12.7	12.8	13.2	13.5	13.7	14.0



TEST NUMBER: P1444489
 CATALOG NUMBER: EHBR1-54-UNV-TA-L830

CANDELA DISTRIBUTION (continued):

	275°	277.5°	280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°
112.5°	13.5	13.5	13.7	13.9	14.0	14.3	14.5	14.8	15.3	15.6	16.1
115°	15.0	15.0	15.3	15.5	15.7	15.9	16.6	16.9	17.5	18.0	18.6
117.5°	16.9	17.0	17.3	17.5	17.9	18.5	19.0	19.6	20.2	20.9	21.9
120°	19.5	19.6	20.0	20.1	20.7	21.3	22.0	22.9	23.8	24.7	25.9
122.5°	22.4	22.7	23.1	23.6	24.3	25.1	26.0	27.0	28.1	29.3	30.5
125°	26.4	26.9	27.4	28.0	28.9	29.9	31.0	32.1	33.4	34.6	36.2
127.5°	31.6	32.0	32.7	33.4	34.6	35.5	36.8	37.9	39.5	41.0	42.6
130°	37.7	38.3	39.2	39.9	41.3	42.4	43.7	45.1	46.8	48.1	49.8
132.5°	45.1	45.7	46.6	47.6	48.9	50.2	51.8	53.1	54.7	56.1	57.7
135°	53.4	54.0	55.2	56.1	57.6	58.7	60.3	61.6	63.4	64.6	66.4
137.5°	62.9	63.5	64.5	65.5	66.9	68.0	69.6	70.9	72.4	73.8	75.3
140°	72.9	73.3	74.5	75.4	76.5	77.7	79.3	80.5	82.1	83.2	84.4
142.5°	83.3	83.6	84.6	85.5	86.6	87.7	89.0	89.9	91.2	92.2	93.8
145°	93.3	93.8	94.7	95.4	96.4	97.3	98.4	99.4	100.5	101.4	102.5
147.5°	103.2	103.7	104.5	105.4	106.3	107.2	107.9	108.8	109.9	110.6	111.7
150°	112.6	113.1	113.7	114.2	115.1	116.0	116.9	117.6	118.4	119.1	120.0
152.5°	121.1	121.4	122.1	122.5	123.4	124.0	124.7	125.4	126.3	126.7	127.6
155°	128.8	129.5	130.1	130.6	131.4	131.7	132.5	133.0	133.9	134.4	135.3
157.5°	136.4	136.7	137.5	137.9	138.6	139.1	139.8	140.2	141.1	141.5	142.2
160°	142.9	143.6	144.1	144.7	145.4	145.8	146.5	147.2	147.8	148.3	148.9
162.5°	149.2	149.9	150.5	151.0	151.7	152.3	152.8	153.4	154.3	154.6	155.4
165°	155.4	155.9	156.6	157.0	157.7	158.4	158.9	159.5	160.0	160.6	161.1
167.5°	161.5	161.8	162.6	163.1	163.7	164.2	164.9	165.3	166.0	166.3	166.9
170°	167.3	167.8	168.2	168.7	169.2	169.5	170.2	170.5	171.1	171.4	172.1
172.5°	172.5	172.9	173.2	173.4	173.7	174.2	174.5	174.7	175.2	175.4	175.8
175°	177.2	177.2	177.4	177.6	177.7	177.7	177.9	178.2	178.3	178.5	178.7
177.5°	180.6	180.6	180.6	180.6	180.6	180.6	180.6	180.6	180.6	180.6	180.6
180°	179.9	179.9	179.9	179.9	179.9	179.9	179.9	179.9	179.9	179.9	179.9



TEST NUMBER: P1444489
 CATALOG NUMBER: EHBR1-54-UNV-TA-L830

CANDELA DISTRIBUTION (continued):

	302.5°	305°	307.5°	310°	312.5°	315°	317.5°	320°	322.5°	325°	327.5°
0°	43397.9	43397.9	43397.9	43397.9	43397.9	43397.9	43397.9	43397.9	43397.9	43397.9	43397.9
2.5°	43857.3	43859.1	43823.8	43821.9	43788.7	43784.6	43752.3	43742.4	43716.2	43706.7	43680.0
5°	45187.9	45144.8	45045.2	44986.7	44888.2	44823.1	44716.6	44647.1	44544.3	44466.8	44363.4
7.5°	46533.6	46466.7	46354.9	46264.3	46127.8	46018.7	45859.0	45728.2	45555.1	45405.3	45223.6
10°	46928.3	46918.0	46889.5	46848.0	46784.5	46713.1	46604.4	46491.0	46339.3	46174.6	45972.5
12.5°	45957.2	46062.0	46205.0	46289.8	46392.8	46438.1	46480.3	46469.8	46441.9	46358.6	46241.9
15°	43497.1	43791.8	44182.0	44484.4	44832.3	45085.1	45364.3	45538.3	45711.9	45791.9	45841.0
17.5°	39583.8	40141.7	40841.3	41421.2	42090.2	42627.5	43216.5	43659.9	44115.9	44442.5	44738.0
20°	34557.2	35365.5	36355.0	37229.1	38245.6	39129.0	40096.9	40891.6	41711.0	42351.8	42958.3
22.5°	29104.9	30064.9	31261.3	32369.4	33679.7	34857.4	36186.1	37342.6	38550.0	39558.7	40534.0
25°	23743.5	24796.4	26104.5	27340.8	28824.9	30194.7	31770.4	33211.8	34772.3	36127.3	37465.7
27.5°	18847.8	19881.5	21216.9	22533.1	24102.4	25561.9	27250.3	28838.2	30615.1	32253.8	33930.0
30°	14824.0	15700.6	16898.1	18172.9	19720.6	21206.0	22912.6	24545.8	26394.3	28183.4	30071.5
32.5°	11744.5	12412.5	13353.9	14431.8	15859.9	17273.8	18898.9	20475.4	22295.8	24103.1	26066.8
35°	9327.3	9848.3	10566.1	11407.2	12616.6	13835.5	15272.9	16706.6	18404.8	20119.9	22028.5
37.5°	7355.1	7777.8	8339.9	8971.9	9941.9	10942.1	12120.7	13309.3	14785.0	16305.3	18035.1
40°	5743.5	6085.8	6523.4	6994.7	7727.1	8497.8	9409.3	10331.1	11516.6	12759.1	14190.8
42.5°	4511.9	4764.5	5073.6	5418.0	6101.3	6510.6	7128.6	7795.3	8666.9	9568.9	10645.2
45°	3623.5	3795.7	4010.1	4241.1	4558.3	4905.4	5328.7	5772.7	6600.6	7006.8	7661.3
47.5°	3026.0	3141.6	3278.0	3423.6	3610.6	3812.5	4063.5	4320.3	4652.3	4996.3	5399.7
50°	2623.6	2741.2	2787.9	2863.4	2971.6	3086.9	3228.5	3370.0	3548.1	3728.6	3936.1
52.5°	2324.9	2363.2	2414.2	2462.1	2529.2	2660.4	2702.9	2776.9	2876.7	2974.3	3083.5
55°	2096.8	2121.7	2154.9	2183.8	2224.4	2263.2	2319.1	2368.4	2434.9	2493.8	2566.2
57.5°	1919.3	1935.2	1958.2	1977.2	2003.4	2025.3	2058.0	2084.7	2123.1	2156.4	2200.2
60°	1790.3	1800.9	1816.4	1828.7	1845.4	1856.8	1873.1	1885.7	1905.9	1922.8	1947.2
62.5°	1685.0	1690.4	1700.5	1707.8	1718.4	1724.2	1732.9	1738.3	1749.4	1757.9	1771.6
65°	1558.5	1559.8	1566.6	1569.6	1578.0	1581.1	1588.1	1590.7	1599.9	1606.1	1618.2
67.5°	1454.9	1452.1	1452.2	1449.8	1451.0	1448.5	1449.2	1446.6	1450.3	1452.2	1461.4
70°	1360.4	1356.4	1355.0	1350.7	1349.4	1344.9	1343.6	1339.6	1339.1	1337.8	1341.1
72.5°	1268.2	1267.1	1267.4	1264.4	1264.0	1261.0	1261.1	1259.2	1261.3	1262.2	1266.4
75°	1162.2	1162.5	1164.6	1161.9	1162.7	1160.1	1161.1	1158.7	1159.9	1159.5	1163.7
77.5°	1033.2	1036.3	1041.9	1040.8	1042.6	1039.7	1041.0	1037.6	1038.5	1036.3	1037.9
80°	888.2	894.6	902.1	901.9	905.0	903.0	905.8	902.6	903.9	900.1	899.1
82.5°	715.9	721.4	729.4	729.7	736.8	738.1	746.0	745.6	750.6	747.4	745.2
85°	489.4	493.1	500.2	504.0	511.3	515.8	523.3	526.4	521.0	530.9	523.1
87.5°	255.5	265.1	259.7	272.1	269.2	281.8	279.0	290.7	288.4	298.3	297.0
90°	43.7	42.4	48.1	47.3	54.5	54.7	62.2	61.7	69.0	68.8	76.1
92.5°	6.6	6.9	6.9	6.9	6.9	7.1	6.9	6.9	6.9	7.1	6.9
95°	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.6	7.6	7.6	7.6
97.5°	8.2	8.2	8.2	8.2	8.3	8.3	8.3	8.3	8.3	8.5	8.5
100°	9.0	9.2	9.2	9.2	9.4	9.4	9.5	9.5	9.6	9.6	9.6
102.5°	10.1	10.1	10.3	10.5	10.5	10.6	10.8	11.1	11.1	11.2	11.2
105°	11.2	11.4	11.6	11.7	11.9	12.4	12.6	12.7	12.8	13.2	13.2
107.5°	12.7	12.8	13.4	13.5	13.9	14.3	14.6	14.8	15.3	15.5	15.6
110°	14.5	14.8	15.3	15.7	16.1	16.8	17.0	17.5	17.9	18.2	18.5



TEST NUMBER: P1444489
 CATALOG NUMBER: EHBR1-54-UNV-TA-L830

CANDELA DISTRIBUTION (continued):

	302.5°	305°	307.5°	310°	312.5°	315°	317.5°	320°	322.5°	325°	327.5°
112.5°	16.6	17.3	17.7	18.5	19.0	19.6	20.1	20.7	21.1	21.7	22.0
115°	19.5	20.1	20.9	21.7	22.4	23.1	23.8	24.4	25.1	25.8	26.0
117.5°	22.7	23.8	24.4	25.8	26.4	27.4	28.1	28.9	29.6	30.3	30.9
120°	26.9	28.0	29.1	30.3	31.2	32.1	33.2	34.1	34.8	35.5	36.2
122.5°	31.7	33.2	34.3	35.5	36.5	37.7	38.6	39.7	40.6	41.5	42.2
125°	37.5	38.8	40.1	41.5	42.6	43.9	44.9	46.0	46.9	48.1	48.9
127.5°	43.9	45.5	46.8	48.2	49.4	50.9	51.8	53.1	54.0	55.2	56.1
130°	51.1	52.9	54.2	55.5	56.6	58.3	59.2	60.5	61.6	62.8	63.9
132.5°	59.2	60.6	61.9	63.5	64.6	65.9	67.1	68.5	69.3	70.8	71.9
135°	67.7	69.1	70.3	71.9	72.9	74.2	75.3	76.5	77.6	79.0	80.1
137.5°	76.4	78.0	79.2	80.5	81.4	82.7	83.6	85.0	85.9	87.3	88.3
140°	85.5	86.8	87.9	89.1	90.1	91.2	92.2	93.3	94.2	95.4	96.2
142.5°	94.7	95.8	96.7	98.0	98.7	99.9	100.5	101.4	102.5	103.4	104.3
145°	103.4	104.5	105.4	106.3	106.8	107.9	108.6	109.5	110.0	111.0	111.7
147.5°	112.4	113.4	113.9	114.8	115.1	116.2	116.6	117.3	117.9	118.4	118.9
150°	120.5	121.4	122.0	122.5	123.1	123.8	124.2	124.7	125.0	125.4	125.9
152.5°	128.1	128.8	129.4	129.8	130.3	130.8	131.0	131.6	131.7	131.9	132.2
155°	135.5	136.4	136.7	137.3	137.5	138.0	138.0	138.4	138.6	138.8	138.8
157.5°	142.7	143.3	143.8	144.1	144.4	144.9	145.1	145.4	145.4	145.8	145.8
160°	149.4	149.9	150.3	150.7	151.2	151.4	151.5	152.0	152.1	152.1	152.1
162.5°	155.7	156.3	156.6	157.0	157.5	157.7	157.9	158.3	158.4	158.6	158.6
165°	161.7	162.1	162.6	163.1	163.3	163.7	163.9	164.2	164.2	164.6	164.6
167.5°	167.3	168.0	168.2	168.7	168.9	169.2	169.4	169.8	169.8	170.0	170.0
170°	172.3	172.5	173.1	173.4	173.6	173.7	174.0	174.2	174.2	174.3	174.3
172.5°	176.1	176.5	176.5	176.8	176.8	177.0	177.2	177.2	177.4	177.4	177.4
175°	178.7	178.8	179.2	179.2	179.2	179.4	179.4	179.4	179.4	179.4	179.4
177.5°	180.6	180.6	180.6	180.5	180.5	180.5	180.5	180.5	180.5	180.5	180.3
180°	179.9	179.9	179.9	179.9	179.9	179.9	179.9	179.9	179.9	179.9	179.9



TEST NUMBER: P1444489
 CATALOG NUMBER: EHBR1-54-UNV-TA-L830

CANDELA DISTRIBUTION (continued):

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
0°	43397.9	43397.9	43397.9	43397.9	43397.9	43397.9	43397.9	43397.9	43397.9	43397.9	43397.9
2.5°	43670.5	43651.6	43639.3	43623.7	43614.2	43602.2	43593.3	43585.7	43579.6	43574.0	43569.8
5°	44284.6	44187.0	44111.2	44029.2	43961.8	43894.6	43842.8	43799.9	43770.3	43748.1	43734.8
7.5°	45066.5	44887.7	44728.9	44561.6	44411.6	44264.2	44137.1	44027.6	43945.4	43892.1	43859.8
10°	45764.6	45525.5	45288.8	45039.9	44803.8	44574.8	44363.4	44177.4	44030.3	43932.5	43875.4
12.5°	46077.6	45873.8	45632.2	45361.9	45072.6	44779.8	44494.5	44237.1	44021.1	43876.2	43792.6
15°	45802.0	45718.3	45554.4	45344.5	45069.9	44767.3	44432.2	44117.3	43827.7	43639.8	43530.9
17.5°	44905.3	45022.1	45009.5	44929.2	44731.9	44477.1	44135.7	43782.0	43419.6	43168.5	43031.4
20°	43392.1	43759.1	43945.4	44041.0	43963.4	43798.3	43489.1	43130.1	42707.7	42380.0	42179.9
22.5°	41265.7	41913.7	42317.5	42613.0	42675.7	42619.4	42346.5	42005.0	41534.2	41140.3	40844.7
25°	38528.2	39477.6	40115.9	40616.2	40810.5	40860.6	40628.4	40288.9	39764.1	39305.1	38899.3
27.5°	35303.9	36537.5	37389.7	38061.9	38365.4	38497.0	38283.3	37936.8	37316.0	36768.0	36237.9
30°	31674.0	33137.6	34163.6	34969.7	35339.6	35513.4	35286.4	34899.7	34177.2	33517.8	32850.0
32.5°	27788.8	29390.4	30508.3	31383.8	31750.3	31914.0	31616.8	31182.6	30347.5	29570.7	28791.9
35°	23721.0	25337.6	26465.0	27317.1	27624.4	27722.9	27343.1	26841.1	25915.9	25063.3	24214.1
37.5°	19570.4	21074.5	22099.1	22863.9	23054.0	23071.0	22613.3	22058.9	21086.4	20245.7	19400.5
40°	15455.7	16724.1	17551.4	18163.5	18229.5	18170.7	17673.0	17115.1	16205.3	15452.1	14710.1
42.5°	11579.9	12537.3	13127.6	13547.1	13522.1	13405.8	12949.5	12469.9	11719.4	11145.7	10561.8
45°	8259.3	8890.6	9235.8	9481.3	9402.4	9291.6	8936.5	8600.3	8090.3	7719.7	7327.3
47.5°	5737.9	6491.8	6360.5	6840.4	6426.9	6700.0	6131.3	5817.8	5547.1	5350.3	5128.5
50°	4107.8	4280.6	4364.0	4421.0	4390.7	4348.8	4246.6	4155.2	4031.6	3941.5	3836.5
52.5°	3172.4	3258.7	3306.0	3340.3	3333.6	3318.3	3273.7	3233.0	3175.1	3136.9	3091.0
55°	2687.1	2688.4	2775.4	2738.1	2793.3	2728.6	2754.0	2682.5	2694.1	2632.6	2591.2
57.5°	2232.9	2268.3	2284.3	2299.6	2295.3	2292.6	2275.4	2266.6	2247.3	2241.3	2227.4
60°	1964.2	1982.6	1986.5	1993.6	1987.6	1985.4	1971.9	1967.1	1954.0	1951.6	1942.5
62.5°	1779.8	1789.3	1789.3	1789.3	1781.6	1774.2	1759.2	1751.4	1740.3	1737.9	1732.5
65°	1626.0	1635.9	1637.5	1639.6	1634.0	1628.2	1615.0	1606.5	1595.0	1590.7	1584.5
67.5°	1467.4	1477.8	1481.3	1486.7	1483.4	1482.2	1473.3	1469.9	1462.3	1460.6	1454.9
70°	1342.7	1347.0	1346.7	1346.5	1339.5	1333.2	1322.7	1317.8	1309.9	1308.3	1303.1
72.5°	1268.5	1271.6	1269.6	1266.9	1257.7	1248.4	1236.2	1227.2	1216.9	1210.5	1203.2
75°	1164.1	1168.2	1165.5	1163.9	1155.6	1149.5	1139.7	1134.7	1127.5	1125.4	1120.4
77.5°	1036.0	1037.9	1033.7	1033.2	1026.9	1023.1	1015.7	1014.4	1009.1	1009.3	1004.4
80°	893.3	892.1	885.4	884.2	877.9	876.3	870.5	870.8	866.5	868.3	865.0
82.5°	735.0	731.0	722.2	719.6	712.4	711.7	707.9	711.1	708.5	712.4	710.1
85°	526.7	527.8	524.0	524.0	521.9	522.6	522.2	524.7	524.9	528.5	528.4
87.5°	293.7	297.9	297.0	301.0	300.8	305.1	306.6	313.0	313.8	319.7	319.7
90°	75.9	83.8	83.5	91.5	91.8	99.6	101.0	108.8	109.4	116.2	115.5
92.5°	6.9	6.9	7.1	6.9	6.9	6.6	7.2	6.6	6.9	6.6	6.6
95°	7.6	7.6	7.6	7.6	7.6	7.4	7.4	7.4	7.4	7.4	7.4
97.5°	8.5	8.5	8.5	8.5	8.5	8.5	8.3	8.3	8.3	8.3	8.3
100°	9.6	9.6	9.8	9.6	9.6	9.6	9.6	9.6	9.6	9.5	9.5
102.5°	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.2	11.2	11.2	11.2
105°	13.4	13.4	13.5	13.5	13.5	13.5	13.5	13.4	13.4	13.4	13.4
107.5°	15.7	15.7	15.9	15.9	16.1	16.1	16.1	15.9	16.1	15.9	15.9
110°	18.8	19.0	19.1	19.1	19.5	19.5	19.5	19.5	19.6	19.5	19.5



TEST NUMBER: P1444489
 CATALOG NUMBER: EHBR1-54-UNV-TA-L830

CANDELA DISTRIBUTION (continued):

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
112.5°	22.4	22.7	23.0	23.0	23.3	23.3	23.6	23.6	23.8	23.6	23.8
115°	26.5	27.0	27.4	27.5	28.0	28.1	28.5	28.5	28.8	28.8	28.8
117.5°	31.6	32.0	32.5	33.0	33.3	33.6	34.1	34.3	34.4	34.4	34.6
120°	36.8	37.5	38.3	38.8	39.4	39.7	40.4	40.6	40.8	40.8	41.0
122.5°	43.1	43.7	44.7	45.1	46.0	46.6	47.1	47.6	48.0	48.0	48.1
125°	50.0	50.9	51.8	52.5	53.4	54.0	54.7	55.0	55.5	55.5	55.6
127.5°	57.2	58.3	59.4	60.1	61.3	61.7	62.6	62.9	63.5	63.5	63.7
130°	65.0	65.9	67.3	68.2	69.1	70.0	70.9	71.3	71.9	71.9	72.0
132.5°	73.2	74.2	75.4	76.4	77.6	78.3	79.3	79.6	80.3	80.3	80.5
135°	81.4	82.3	83.6	84.6	85.7	86.6	87.5	88.0	88.6	88.6	88.8
137.5°	89.5	90.6	91.7	92.6	93.8	94.6	95.4	95.8	96.4	96.7	96.7
140°	97.5	98.3	99.6	100.3	101.4	102.1	102.9	103.4	104.1	104.1	104.3
142.5°	105.2	105.8	107.2	107.7	108.6	109.2	109.9	110.3	110.8	111.0	111.0
145°	112.4	112.9	113.9	114.6	115.1	115.7	116.2	116.8	116.9	116.9	117.1
147.5°	119.6	120.0	120.5	120.9	121.8	122.1	122.4	122.5	123.1	123.1	123.1
150°	126.3	126.5	126.7	127.0	127.4	127.6	127.7	128.0	128.1	128.0	128.0
152.5°	132.4	132.5	132.7	132.7	132.8	132.8	132.8	132.7	132.7	132.5	132.4
155°	139.0	139.0	139.0	138.8	139.0	138.8	138.6	138.4	138.2	137.9	137.5
157.5°	145.8	145.4	145.8	145.4	145.2	145.1	144.9	144.3	144.1	143.6	143.1
160°	152.3	152.1	152.1	152.0	151.7	151.4	151.2	150.5	150.2	149.6	149.1
162.5°	158.6	158.6	158.4	158.3	157.9	157.7	157.5	156.8	156.5	155.9	155.4
165°	164.7	164.6	164.6	164.2	164.0	163.7	163.5	162.9	162.6	162.0	161.5
167.5°	170.0	170.0	169.8	169.5	169.4	169.2	168.9	168.4	168.0	167.4	167.1
170°	174.3	174.2	174.2	174.0	173.7	173.6	173.2	172.9	172.4	172.1	171.6
172.5°	177.2	177.2	177.0	176.8	176.8	176.6	176.3	176.1	175.6	175.4	175.2
175°	179.2	179.2	178.8	178.8	178.7	178.5	178.3	178.2	177.9	177.7	177.4
177.5°	180.3	180.3	179.9	179.9	179.8	179.8	179.7	179.5	179.5	179.4	179.2
180°	179.9	179.9	179.9	179.9	179.9	179.9	179.9	179.9	179.9	179.9	179.9



TEST NUMBER: P1444489
CATALOG NUMBER: EHBR1-54-UNV-TA-L830

CANDELA DISTRIBUTION (continued):

	357.5°	360°
0°	43397.9	43397.9
2.5°	43566.0	43563.7
5°	43727.9	43725.4
7.5°	43851.2	43850.3
10°	43865.6	43873.2
12.5°	43778.1	43784.2
15°	43522.6	43534.5
17.5°	43033.9	43049.5
20°	42192.1	42208.4
22.5°	40828.8	40835.6
25°	38846.8	38818.7
27.5°	36144.8	36096.4
30°	32709.8	32662.9
32.5°	28614.3	28585.1
35°	24004.2	23985.7
37.5°	19150.6	19113.0
40°	14438.7	14329.0
42.5°	10306.0	10113.5
45°	7122.4	6894.2
47.5°	4972.1	4831.1
50°	3768.8	3723.2
52.5°	3070.9	3060.2
55°	2591.1	2586.4
57.5°	2230.5	2228.9
60°	1947.2	1946.8
62.5°	1736.1	1736.8
65°	1587.3	1587.6
67.5°	1456.4	1455.5
70°	1305.0	1303.9
72.5°	1200.9	1199.1
75°	1120.4	1119.3
77.5°	1005.8	1004.2
80°	867.2	865.0
82.5°	713.3	710.8
85°	532.1	532.2
87.5°	325.5	325.4
90°	122.0	120.5
92.5°	6.9	7.2
95°	7.4	7.4
97.5°	8.3	8.3
100°	9.5	9.5
102.5°	11.2	11.2
105°	13.4	13.4
107.5°	15.9	15.9
110°	19.5	19.5



TEST NUMBER: P1444489
CATALOG NUMBER: EHBR1-54-UNV-TA-L830

CANDELA DISTRIBUTION (continued):

	357.5°	360°
112.5°	23.6	23.6
115°	28.5	28.5
117.5°	34.4	34.3
120°	40.7	40.7
122.5°	47.8	47.6
125°	55.4	55.2
127.5°	63.4	63.0
130°	71.4	71.3
132.5°	80.1	79.6
135°	88.3	88.0
137.5°	96.2	95.8
140°	103.7	103.4
142.5°	110.8	110.5
145°	116.9	116.6
147.5°	122.4	122.2
150°	127.6	127.2
152.5°	131.7	131.4
155°	136.9	136.4
157.5°	142.4	141.8
160°	148.3	147.8
162.5°	154.6	154.1
165°	160.6	160.0
167.5°	166.3	166.0
170°	171.1	170.9
172.5°	174.7	174.3
175°	177.2	177.0
177.5°	179.2	178.8
180°	179.9	179.9

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

Report Prepared for

Cooper Lighting Solutions

Metalux

Report Number: SP1-2506-472-2

Test Date: 07/31/2025

Luminaire Tested: EHBR-60-L830-N

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

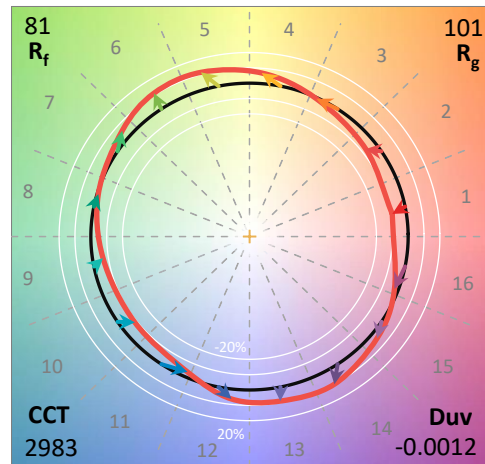
Test Information

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

Spectral Parameters

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

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



Test Conditions

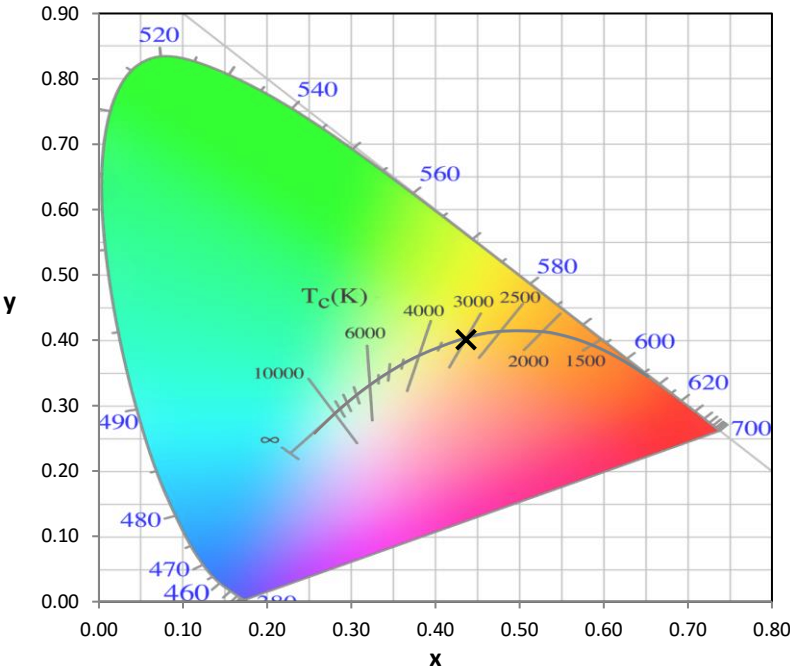
Stabilization Time: 38M
 Operation Time: 1H 38M
 Sphere Temperature (°C): 25.0

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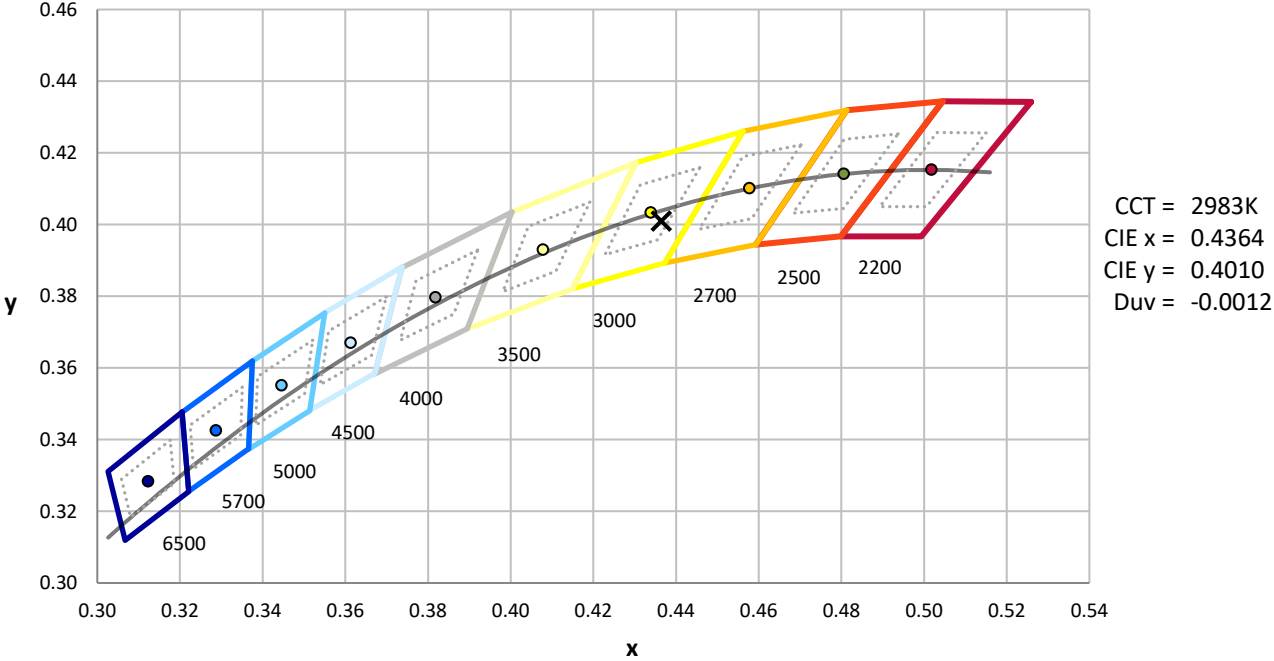
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	6/16/2025	12/16/2025
Power Meter	XITRON INXT2011004	1/21/2025	1/21/2026
AC Power Source	CHROMA 61603 IN0063	10/22/2024	10/22/2025
DC Power Source	AGILENT E3634A IN0208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



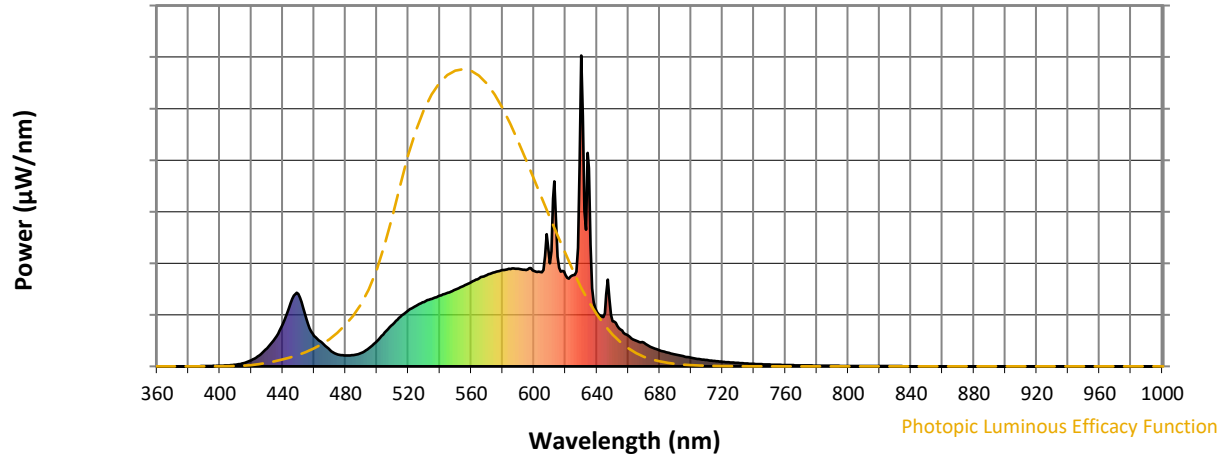
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3000K 4-step quadrangle

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Photopic Flux vs. Wavelength



Photopic Lumens: NR

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

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Scotopic Flux vs. Wavelength



Scotopic Lumens: NR

S/P: 1.27

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

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.34

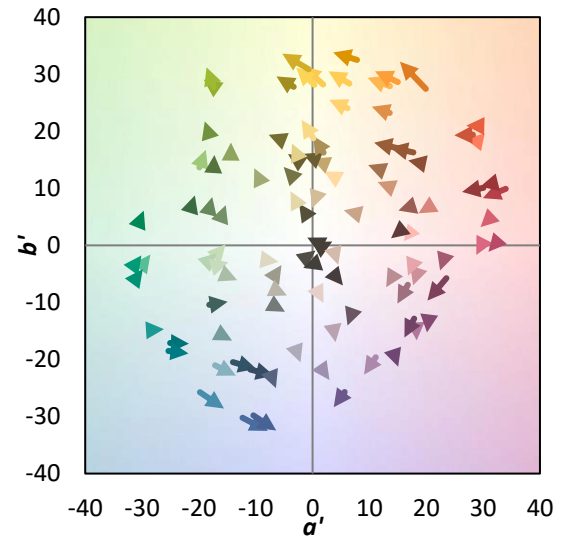
λ (nm)	Power W [^] /nm	Lumens (ϕ /nm)	λ (nm)	Power W [^] /nm	Lumens (ϕ /nm)	λ (nm)	Power W [^] /nm	Lumens (ϕ /nm)	λ (nm)	Power W [^] /nm	Lumens (ϕ /nm)	λ (nm)	Power W [^] /nm	Lumens (ϕ /nm)
360	0	NR	490	43	NR	620	294	NR	750	6	NR	880	0	NR
365	0	NR	495	59	NR	625	294	NR	755	5	NR	885	0	NR
370	0	NR	500	81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

Summary

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

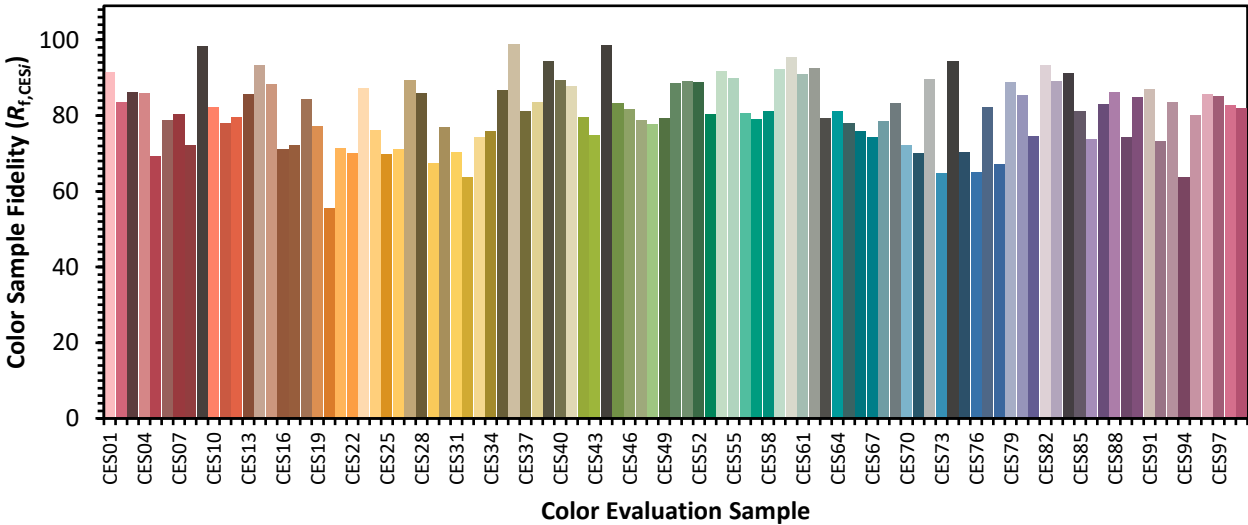


Color Vector Graphics

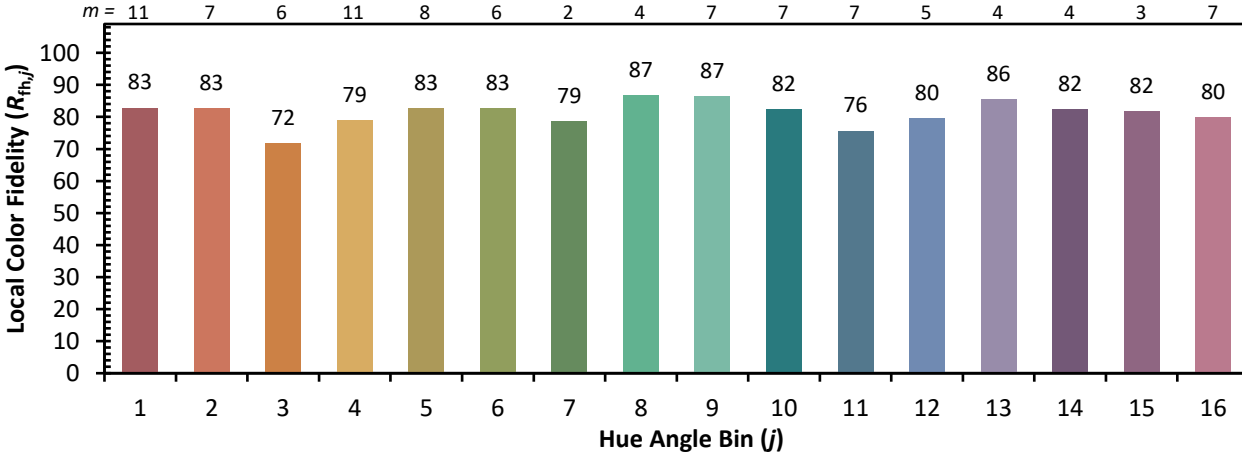


Individual Sample Fidelity Index ($R_{f,i}$)

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



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)