

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: P1444372

Luminaire Tested: EHBR1-18-UNV-TA-L840-UPL18

Issue Date: 5/1/2026

Test Information

Test Method: LM-79-2019
Report Number: P1444372
REPORT IS A COMBINATION OF REPORTS P1444319 AND P1431635
Test Lab: INNOVATION CENTER
Issue Date: 5/1/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: EHBR1-18-UNV-TA-L840-UPL18
Description: Elevate Round Highbay at, 18000 lumens, 4000K 80CRI LEDs with TA lens
Light Source: -
Ballast/Driver: -

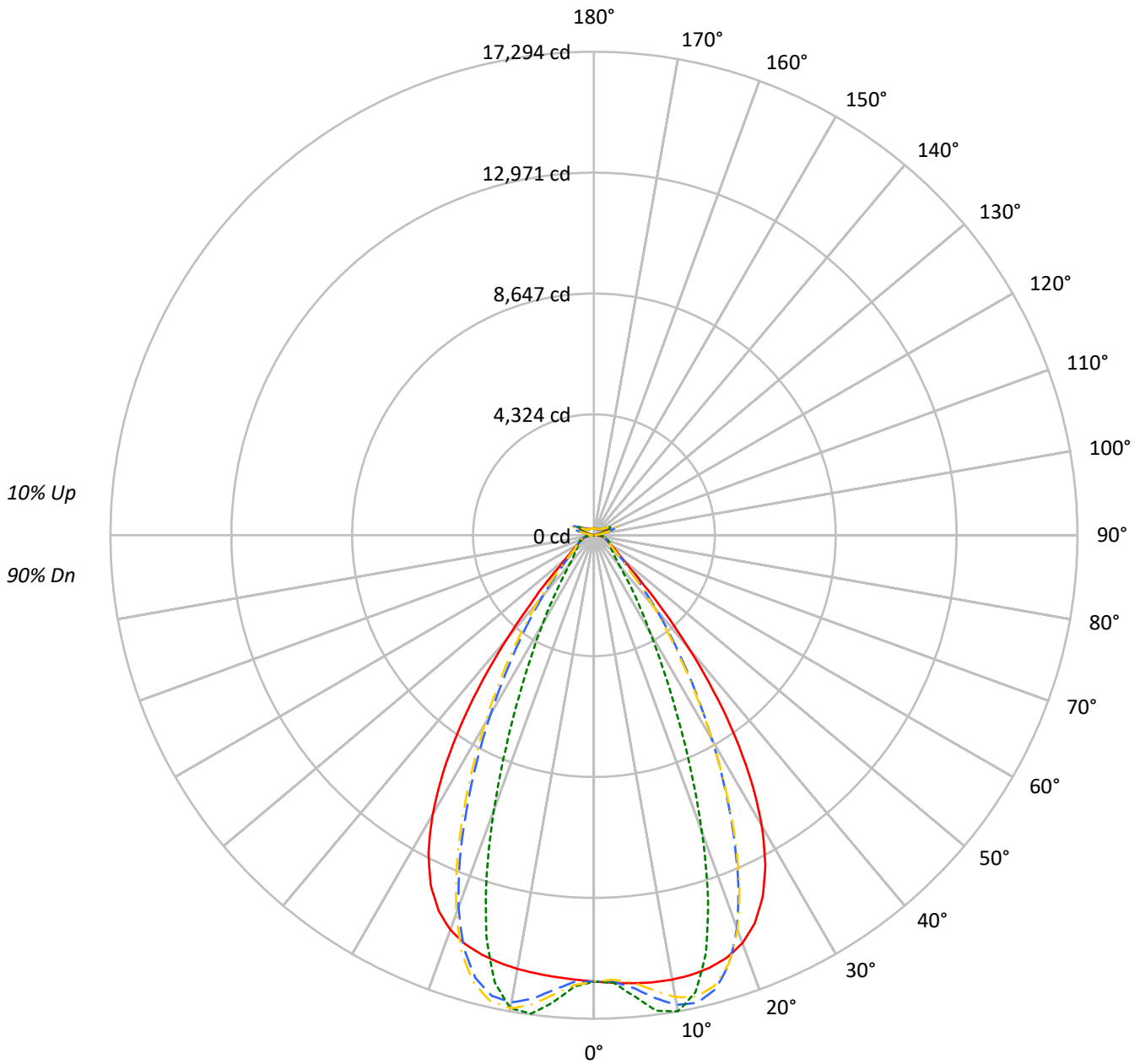
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20343.4 lumens
Efficiency: N/A
Efficacy: 190.8 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: Direct

Input Watts (W): 106.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P1444372
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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	117	117	117	117	113	113	113	113	106	106	106	99	99	99	93	93	93	93	93	93	90
1	110	106	103	100	106	103	100	98	97	95	93	92	90	88	87	85	84	84	84	84	82
2	103	97	92	88	99	94	90	86	89	86	83	85	82	79	81	78	76	76	76	76	74
3	96	89	83	78	93	87	81	77	82	78	74	79	75	72	75	72	70	70	70	70	67
4	91	82	75	70	88	80	74	69	76	71	67	73	69	66	70	67	64	64	64	64	62
5	85	76	69	64	83	74	68	63	71	66	62	68	64	60	66	62	59	59	59	59	57
6	80	70	63	58	78	69	62	58	66	61	57	64	59	56	62	58	54	54	54	54	53
7	76	65	59	54	74	64	58	53	62	56	52	60	55	51	58	54	51	51	51	51	49
8	72	61	54	50	70	60	54	49	58	53	49	56	51	48	55	50	47	47	47	47	45
9	68	57	51	46	66	56	50	46	55	49	45	53	48	45	52	47	44	44	44	44	42
10	65	54	48	43	63	53	47	43	52	46	42	50	45	42	49	44	41	41	41	41	40

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	74966	74966	74966	74966
5°	75329	77525	74275	78541
10°	75958	81396	74136	80858
15°	76330	73785	74007	70814
20°	75542	54967	73069	50858
25°	71503	34764	69140	31542
30°	62463	20890	60044	19092
35°	48072	13109	45307	11612
40°	30410	8223	27822	7727
45°	15673	6406	15414	6301
50°	9189	5698	8907	5609
55°	7040	5391	6780	5342
60°	5957	5507	5703	5435
65°	5595	5751	5380	5555
70°	5467	6022	5195	5795
75°	5844	6387	5529	6104
80°	6047	7071	5484	6455
85°	5694	6823	4603	5842

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 25°
 Vertical Angle: 45°
 Luminance: 23986 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1573.2	7.7
10°-20°	4425.7	21.8
20°-30°	5040.5	24.8
30°-40°	3622.9	17.8
40°-50°	1670.9	8.2
50°-60°	799.6	3.9
60°-70°	583.4	2.9
70°-80°	443.2	2.2
80°-90°	204.9	1.0
90°-100°	55.5	0.3
100°-110°	329.2	1.6
110°-120°	608.4	3.0
120°-130°	369.6	1.8
130°-140°	234.2	1.2
140°-150°	171.0	0.8
150°-160°	117.4	0.6
160°-170°	70.0	0.3
170°-180°	23.8	0.1
0°-30°	11039.5	54.3
0°-40°	14662.3	72.1
0°-60°	17132.8	84.2
0°-90°	18364.3	90.3
90°-120°	993.2	4.9
90°-150°	1768.0	8.7
90°-180°	1979.0	9.7
0°-180°	20343.4	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	15964	15964	15964	15964	15964	
5°	16084	16553	15859	16770	16084	1537
15°	16014	15480	15526	14856	16014	4512
25°	14279	6942	13807	6299	14279	6473
35°	8823	2406	8316	2131	8823	5415
45°	2536	1036	2494	1019	2536	2157
55°	951	728	916	722	951	878
65°	584	600	562	580	584	583
75°	412	450	390	430	412	428
85°	196	234	158	201	196	184
90°	58	72	20	24	58	35
95°	25	28	26	29	25	24
105°	118	153	78	153	118	156
115°	530	644	555	644	530	489
125°	395	417	447	418	395	359
135°	305	274	329	276	305	238
145°	267	262	285	265	267	169
155°	247	249	263	251	247	115
165°	243	244	252	245	243	69
175°	247	250	252	250	247	24
180°	250	250	250	250	250	



TEST NUMBER: P1444372
 CATALOG NUMBER: EHBR1-18-UNV-TA-L840-UPL18

CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
0°	15963.5	15963.5	15963.5	15963.5	15963.5	15963.5	15963.5	15963.5	15963.5	15963.5	15963.5
2.5°	16024.5	16023.2	16023.0	16021.9	16021.6	16021.6	16021.0	16019.7	16018.9	16017.1	16015.0
5°	16084.0	16083.3	16083.7	16083.8	16082.7	16080.2	16076.3	16071.5	16065.5	16059.7	16054.7
7.5°	16130.0	16131.1	16132.5	16132.2	16128.7	16122.8	16114.8	16110.4	16113.0	16121.7	16141.6
10°	16138.3	16145.2	16147.8	16147.0	16140.1	16135.0	16137.0	16153.9	16187.6	16232.5	16293.9
12.5°	16105.7	16114.0	16113.7	16111.0	16104.2	16111.1	16135.6	16185.9	16258.1	16346.7	16450.5
15°	16013.7	16024.6	16021.6	16018.0	16013.4	16036.0	16085.0	16172.4	16283.8	16408.8	16536.6
17.5°	15835.3	15848.6	15842.1	15838.1	15834.2	15876.5	15960.6	16088.6	16229.0	16370.3	16491.4
20°	15526.0	15534.8	15519.5	15512.4	15518.4	15601.3	15725.1	15888.5	16036.5	16170.1	16253.0
22.5°	15021.0	15032.0	15003.4	15000.1	15035.3	15162.4	15319.1	15502.0	15641.0	15746.9	15778.7
25°	14279.1	14289.9	14256.0	14276.2	14336.2	14509.3	14696.0	14891.5	15010.1	15088.6	15066.9
27.5°	13277.7	13287.5	13255.3	13296.8	13391.6	13619.2	13838.7	14050.8	14156.6	14211.6	14141.9
30°	12014.8	12035.2	11997.1	12054.9	12199.7	12495.2	12746.7	12984.5	13090.0	13131.8	13023.5
32.5°	10514.8	10543.8	10501.9	10587.8	10789.8	11144.7	11430.6	11696.3	11812.9	11860.7	11738.2
35°	8822.9	8864.6	8816.5	8945.6	9194.7	9589.8	9906.4	10203.1	10341.1	10408.8	10285.5
37.5°	7030.5	7070.3	7044.2	7216.5	7490.0	7899.6	8222.6	8542.7	8698.7	8800.3	8703.0
40°	5270.8	5307.1	5326.8	5523.8	5781.1	6167.1	6477.5	6794.1	6968.6	7096.1	7036.1
42.5°	3720.2	3756.8	3823.7	4013.8	4228.3	4547.9	4813.7	5098.1	5264.8	5400.8	5377.6
45°	2535.9	2578.5	2662.3	2817.9	2973.1	3202.5	3397.6	3618.8	3754.9	3879.5	3880.9
47.5°	1777.1	1806.9	1881.9	1988.1	2089.3	2376.3	2388.1	2496.8	2588.3	2681.4	2693.5
50°	1369.5	1387.6	1427.3	1486.6	1543.9	1618.3	1686.5	1765.3	1821.6	1872.7	1884.9
52.5°	1125.6	1137.1	1157.3	1189.4	1222.7	1263.2	1299.7	1343.0	1373.6	1400.9	1406.6
55°	951.4	960.9	990.9	997.1	1035.1	1042.4	1058.6	1085.0	1102.8	1119.2	1123.2
57.5°	819.9	826.8	833.1	846.8	858.6	875.5	889.2	908.1	919.4	931.2	932.2
60°	716.1	721.0	725.7	735.1	743.1	754.9	764.4	777.2	785.3	794.2	795.2
62.5°	638.9	642.4	645.5	651.7	657.5	666.5	674.0	684.7	692.3	699.1	700.6
65°	584.0	586.6	588.5	593.3	598.2	606.0	612.8	621.5	627.1	632.3	633.5
67.5°	535.4	537.9	539.8	544.2	547.6	553.4	558.0	564.5	568.7	572.9	573.0
70°	479.7	481.9	483.5	487.5	490.3	495.2	499.0	504.8	509.1	513.8	515.0
72.5°	441.0	442.4	444.5	448.2	452.0	457.3	462.2	468.4	473.5	478.4	480.5
75°	411.7	413.3	414.7	417.8	420.5	425.0	428.6	434.3	438.7	444.0	446.5
77.5°	369.4	371.2	372.3	375.5	377.8	382.1	384.8	389.9	393.5	398.3	400.6
80°	318.1	319.9	320.8	323.7	325.5	329.4	332.2	337.0	340.0	344.8	347.6
82.5°	261.4	263.0	263.6	266.4	267.4	270.6	272.5	277.6	281.3	287.5	291.7
85°	195.7	196.4	197.3	196.6	200.6	200.8	205.3	206.1	212.0	213.6	220.4
87.5°	119.7	121.5	122.4	125.1	126.2	129.0	129.8	132.7	134.3	137.6	139.1
90°	57.7	60.9	62.4	66.0	67.3	70.7	71.9	75.6	77.0	80.8	82.9
92.5°	22.3	23.8	25.3	26.9	28.5	30.3	32.0	33.5	35.1	36.9	40.0
95°	25.4	27.1	28.9	30.6	32.3	34.1	35.8	37.5	39.3	41.0	45.9
97.5°	32.0	33.5	35.0	36.4	37.9	39.5	41.0	42.4	43.9	45.4	51.4
100°	41.8	43.1	44.3	45.6	46.8	48.1	49.3	50.7	51.9	53.2	64.2
102.5°	69.3	73.8	78.3	82.7	87.2	91.6	96.2	100.5	105.0	109.5	133.1
105°	117.6	129.8	142.1	154.1	166.3	178.5	190.7	202.7	214.9	227.0	265.4
107.5°	201.3	223.7	246.2	268.8	291.3	313.8	336.3	358.8	381.3	403.7	442.6
110°	372.2	390.3	408.4	426.5	444.7	462.7	480.8	498.7	516.9	535.0	563.3



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CANDELA DISTRIBUTION (continued):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
112.5°	502.0	510.2	518.3	526.6	534.8	542.9	551.1	559.3	567.5	575.5	595.9
115°	529.6	532.6	535.4	538.2	541.2	544.0	546.9	549.7	552.5	555.3	569.1
117.5°	514.2	513.7	513.2	512.8	512.1	511.7	511.1	510.6	509.8	509.3	517.1
120°	479.3	476.8	474.3	471.8	469.3	466.7	464.1	461.7	459.1	456.4	459.7
122.5°	435.4	432.4	429.4	426.4	423.4	420.2	417.2	414.1	411.0	407.9	409.1
125°	394.6	391.6	388.7	385.5	382.5	379.3	376.3	373.1	369.9	366.8	367.4
127.5°	359.3	357.3	355.2	352.8	350.7	348.4	346.2	343.9	341.6	339.2	339.5
130°	336.5	334.6	332.7	330.6	328.7	326.6	324.5	322.4	320.4	318.1	318.5
132.5°	317.8	316.6	315.2	313.8	312.4	310.7	309.3	307.5	306.0	304.4	304.8
135°	305.4	304.1	303.0	301.7	300.4	298.8	297.4	295.8	294.3	292.8	293.3
137.5°	294.8	293.8	292.7	291.4	290.2	288.7	287.5	286.0	284.6	283.1	283.6
140°	285.2	284.2	283.2	282.0	280.9	279.8	278.5	277.2	275.9	274.4	275.2
142.5°	274.3	273.4	272.7	271.8	271.0	269.9	268.9	267.8	266.9	265.7	266.7
145°	267.3	266.7	266.0	265.3	264.4	263.6	262.6	261.6	260.8	259.9	260.9
147.5°	261.1	260.6	260.1	259.4	258.9	258.1	257.4	256.5	255.9	255.1	256.1
150°	255.7	255.2	254.8	254.2	253.5	252.9	252.1	251.3	250.7	249.9	250.9
152.5°	250.0	249.5	249.0	248.5	247.9	247.1	246.6	245.9	245.2	244.5	245.4
155°	246.6	246.1	245.6	245.0	244.5	243.9	243.3	242.6	242.0	241.3	242.0
157.5°	244.5	244.1	243.7	243.2	242.9	242.3	241.8	241.3	240.8	240.3	240.8
160°	243.7	243.3	242.9	242.3	241.9	241.4	240.9	240.3	239.9	239.4	239.8
162.5°	242.9	242.4	242.0	241.6	241.2	240.5	240.1	239.7	239.3	238.8	239.3
165°	242.9	242.7	242.4	242.1	241.8	241.5	241.2	240.8	240.5	240.1	240.5
167.5°	245.1	244.7	244.4	244.0	243.7	243.2	242.8	242.4	242.2	241.7	242.1
170°	245.9	245.6	245.4	245.2	245.0	244.8	244.6	244.3	244.1	243.9	244.2
172.5°	247.2	246.9	246.8	246.7	246.5	246.3	246.2	246.0	245.9	245.6	246.1
175°	247.2	247.0	246.9	246.8	246.7	246.6	246.5	246.4	246.4	246.2	246.4
177.5°	248.8	248.7	248.7	248.7	248.7	248.6	248.6	248.5	248.4	248.4	248.5
180°	250.2	250.2	250.2	250.2	250.2	250.2	250.2	250.2	250.2	250.2	250.2



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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°	15963.5	15963.5	15963.5	15963.5	15963.5	15963.5	15963.5	15963.5	15963.5	15963.5	15963.5
2.5°	16013.4	16011.5	16008.9	16005.5	16002.5	15999.2	15991.2	15988.8	15991.5	15993.3	15997.0
5°	16051.5	16052.6	16053.1	16060.4	16066.6	16082.2	16205.0	16253.9	16291.6	16315.6	16352.0
7.5°	16166.2	16203.1	16239.7	16288.8	16331.1	16388.3	16603.2	16694.7	16759.7	16806.4	16863.9
10°	16360.6	16441.3	16516.7	16605.3	16681.4	16768.5	16968.6	17057.6	17113.9	17154.8	17193.1
12.5°	16556.5	16668.2	16769.2	16867.8	16950.1	17025.7	17096.0	17127.2	17129.8	17131.1	17110.8
15°	16658.5	16765.3	16854.2	16919.4	16967.8	16989.2	16868.2	16804.6	16724.3	16658.2	16549.3
17.5°	16594.1	16658.2	16696.6	16692.8	16672.8	16605.8	16262.9	16074.2	15886.8	15718.1	15496.7
20°	16308.0	16303.0	16269.6	16174.9	16060.8	15883.3	15295.1	14955.9	14627.8	14339.7	13990.2
22.5°	15775.5	15691.8	15574.9	15370.7	15143.9	14833.7	13991.0	13491.8	13035.2	12631.8	12179.8
25°	15004.1	14831.8	14616.4	14292.1	13939.5	13487.3	12448.5	11827.8	11279.4	10803.9	10282.4
27.5°	14016.8	13757.2	13441.5	12992.8	12515.1	11935.8	10784.1	10099.0	9510.4	9000.6	8445.5
30°	12848.0	12510.4	12102.8	11545.8	10969.6	10312.5	9144.5	8450.6	7854.8	7330.3	6774.8
32.5°	11527.1	11131.7	10654.0	10029.0	9405.8	8730.2	7602.2	6930.5	6361.3	5856.7	5354.1
35°	10070.3	9646.2	9140.8	8503.2	7883.9	7227.1	6192.0	5586.4	5083.7	4637.8	4231.8
37.5°	8507.6	8091.2	7610.9	7009.9	6435.6	5840.4	4947.3	4439.8	4018.0	3647.8	3334.4
40°	6882.8	6518.4	6102.8	5583.3	5093.1	4597.4	3864.4	3461.5	3128.6	2846.3	2611.5
42.5°	5277.9	4995.6	4676.8	4266.3	3891.2	3513.7	2949.5	2651.0	2404.4	2201.2	2035.2
45°	3829.4	3640.4	3426.7	3141.2	2881.7	2618.5	2216.9	2007.1	1846.6	1715.5	1604.7
47.5°	2676.9	2567.3	2560.6	2296.9	2106.6	1945.6	1686.8	1554.4	1456.0	1376.6	1306.5
50°	1879.9	1826.9	1761.0	1666.9	1578.6	1487.6	1330.0	1249.8	1192.2	1144.1	1099.8
52.5°	1405.3	1377.9	1342.8	1292.8	1245.0	1193.7	1094.1	1043.0	1024.9	980.1	945.0
55°	1122.5	1106.7	1086.8	1057.4	1028.3	1016.7	931.2	893.3	869.4	851.7	832.7
57.5°	932.4	920.6	908.8	888.9	872.1	851.7	806.3	786.8	772.6	762.2	749.1
60°	795.3	788.3	781.7	770.0	760.9	749.9	721.0	710.1	702.7	696.4	688.0
62.5°	702.0	698.3	694.9	688.7	684.1	678.1	658.4	653.1	649.4	646.3	641.2
65°	634.6	631.9	630.1	626.0	623.7	620.1	603.2	599.6	597.3	596.2	593.3
67.5°	573.3	570.6	569.4	566.5	565.4	563.3	549.4	547.5	546.7	547.1	546.0
70°	516.1	515.0	515.5	515.1	516.4	516.8	508.4	508.3	509.2	511.0	511.2
72.5°	481.8	481.8	482.4	482.7	483.9	484.5	477.6	477.3	477.7	479.0	479.0
75°	449.1	449.6	451.4	452.0	453.4	453.7	444.6	443.5	443.6	444.8	444.4
77.5°	403.9	405.8	409.3	411.0	413.9	414.4	404.0	402.8	402.8	404.1	403.0
80°	352.6	356.4	361.7	365.5	369.8	371.6	360.9	358.4	356.1	355.7	353.6
82.5°	298.2	302.7	309.2	312.5	317.1	318.2	300.4	297.0	295.0	295.2	293.3
85°	227.6	231.1	236.9	238.8	241.7	241.5	221.1	212.4	214.7	211.1	213.9
87.5°	142.8	144.8	148.4	148.9	150.2	149.9	129.6	125.5	124.3	124.4	122.9
90°	87.4	89.9	94.2	95.6	98.8	99.6	84.2	83.3	80.9	80.7	77.8
92.5°	43.1	46.1	49.2	52.4	55.5	58.6	59.7	62.3	59.2	55.9	52.9
95°	51.0	56.0	61.0	66.2	71.2	76.3	81.3	86.4	81.6	77.0	72.2
97.5°	57.3	63.4	69.2	75.2	81.1	87.2	93.1	99.1	94.0	88.9	83.8
100°	75.4	86.5	97.6	108.7	119.9	131.0	142.2	153.3	143.5	133.6	123.9
102.5°	156.7	180.4	204.0	227.6	251.2	275.0	298.7	322.4	299.9	277.4	254.9
105°	303.8	342.1	380.4	418.6	456.9	495.2	533.8	572.0	536.2	500.2	464.2
107.5°	481.4	520.3	559.1	597.9	636.8	675.6	714.8	753.6	718.6	683.5	648.6
110°	591.8	620.1	648.5	676.8	705.2	733.5	762.3	790.7	769.7	748.6	727.5



TEST NUMBER: P1444372
 CATALOG NUMBER: EHBR1-18-UNV-TA-L840-UPL18

CANDELA DISTRIBUTION (continued):

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
112.5°	616.1	636.5	656.8	676.9	697.1	717.4	738.2	758.6	748.1	737.4	727.0
115°	582.7	596.4	610.0	623.8	637.5	651.0	665.3	679.2	675.7	672.3	669.1
117.5°	524.7	532.3	540.0	547.7	555.2	562.9	571.3	579.2	579.7	580.3	580.9
120°	463.0	466.3	469.4	472.7	475.8	479.1	483.3	486.7	489.7	492.4	495.3
122.5°	410.5	411.7	412.9	414.1	415.2	416.4	418.8	420.3	422.3	424.3	426.3
125°	368.0	368.7	369.3	369.9	370.3	371.0	373.0	373.7	373.9	374.1	374.1
127.5°	339.5	339.7	339.8	339.9	339.9	340.1	341.6	342.1	340.8	339.6	338.5
130°	318.8	319.1	319.4	319.8	320.1	320.5	322.3	323.0	320.9	318.6	316.5
132.5°	305.2	305.6	305.9	306.5	306.9	307.3	309.4	310.2	307.7	305.2	302.8
135°	293.7	294.4	294.8	295.3	295.8	296.5	298.8	299.7	297.5	295.0	292.6
137.5°	284.0	284.7	285.1	285.7	286.3	286.9	289.4	290.3	288.5	286.6	284.7
140°	275.8	276.4	277.2	277.8	278.5	279.3	282.0	283.1	281.7	280.2	278.7
142.5°	267.4	268.4	269.3	270.2	271.2	272.2	275.4	276.8	275.8	274.5	273.6
145°	261.8	263.0	264.1	265.2	266.3	267.5	271.0	272.6	272.0	271.2	270.6
147.5°	256.8	257.9	258.9	259.8	260.9	262.1	265.7	267.4	267.0	266.6	266.1
150°	251.8	252.9	253.9	254.9	256.1	257.2	261.2	263.0	262.7	262.3	261.9
152.5°	246.2	247.1	248.0	249.0	249.9	251.0	255.7	257.6	257.3	256.9	256.7
155°	242.6	243.4	244.0	244.8	245.5	246.5	251.4	253.2	253.0	252.8	252.6
157.5°	241.3	241.8	242.2	242.8	243.3	243.9	248.9	250.7	250.4	250.2	250.1
160°	240.2	240.6	240.9	241.4	241.8	242.3	247.4	249.0	248.9	248.7	248.5
162.5°	239.7	240.4	240.8	241.3	241.8	242.4	247.6	249.4	249.1	248.8	248.6
165°	240.8	241.1	241.4	241.9	242.2	242.5	247.3	248.8	248.7	248.4	248.3
167.5°	242.3	242.7	243.0	243.3	243.7	244.2	248.6	250.0	249.9	249.7	249.6
170°	244.4	244.7	244.9	245.3	245.6	246.0	249.7	250.9	250.7	250.4	250.2
172.5°	246.3	246.7	247.0	247.4	247.7	248.1	251.3	252.5	252.4	252.1	251.8
175°	246.7	246.9	247.3	247.6	247.9	248.1	250.7	251.5	251.4	251.3	251.2
177.5°	248.8	249.0	249.2	249.5	249.7	249.9	251.5	252.0	251.9	251.9	251.8
180°	250.2	250.2	250.2	250.2	250.2	250.2	250.2	250.2	250.2	250.2	250.2



TEST NUMBER: P1444372
 CATALOG NUMBER: EHBR1-18-UNV-TA-L840-UPL18

CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
0°	15963.5	15963.5	15963.5	15963.5	15963.5	15963.5	15963.5	15963.5	15963.5	15963.5	15963.5
2.5°	15997.8	16003.4	16004.3	16010.8	16010.3	16018.1	16016.9	16023.2	16019.5	16024.7	16020.3
5°	16373.5	16407.7	16425.4	16458.7	16469.2	16499.0	16507.3	16534.5	16535.6	16557.2	16552.2
7.5°	16904.8	16954.9	16984.8	17025.9	17046.8	17081.0	17096.1	17121.4	17129.6	17149.7	17151.2
10°	17222.0	17246.3	17263.4	17274.9	17285.4	17290.2	17296.0	17294.5	17296.0	17293.8	17298.7
12.5°	17097.2	17061.6	17038.1	16993.5	16967.5	16918.3	16894.1	16846.7	16829.5	16788.8	16782.9
15°	16465.3	16341.2	16253.5	16125.9	16045.7	15920.3	15846.8	15733.6	15682.0	15592.0	15568.4
17.5°	15313.5	15083.1	14904.8	14676.1	14517.4	14303.6	14169.2	13992.2	13895.3	13752.6	13703.2
20°	13698.8	13357.8	13090.4	12771.8	12543.8	12259.8	12077.8	11848.5	11715.3	11540.0	11469.0
22.5°	11803.0	11378.6	11044.5	10668.2	10393.1	10076.5	9858.5	9610.4	9465.5	9275.1	9190.8
25°	9849.1	9381.0	9009.7	8613.1	8322.4	8005.1	7787.2	7543.3	7393.3	7212.6	7128.9
27.5°	7980.3	7506.6	7147.7	6779.0	6512.3	6225.9	6029.3	5816.4	5683.4	5529.0	5450.2
30°	6331.2	5913.2	5607.8	5301.9	5080.1	4847.5	4684.1	4507.7	4391.0	4258.8	4183.7
32.5°	4987.6	4664.9	4425.8	4183.0	4001.5	3807.2	3665.9	3510.2	3404.9	3286.9	3218.9
35°	3950.0	3699.4	3508.7	3308.8	3152.8	2987.3	2862.8	2728.5	2634.0	2532.4	2473.7
37.5°	3120.9	2921.7	2764.7	2598.7	2470.5	2333.4	2287.2	2133.0	2035.1	1954.0	1897.9
40°	2449.3	2290.8	2161.0	2034.0	1929.5	1825.5	1742.0	1659.7	1596.4	1538.4	1498.4
42.5°	1912.8	1797.9	1703.1	1610.1	1533.9	1458.1	1397.6	1340.9	1298.3	1260.3	1234.5
45°	1520.6	1441.6	1375.7	1310.2	1256.4	1205.8	1165.1	1128.9	1101.3	1078.6	1062.5
47.5°	1249.1	1195.1	1148.5	1104.4	1067.9	1034.7	1007.5	998.6	969.0	949.1	941.5
50°	1061.6	1029.0	993.7	961.1	936.7	912.4	894.7	877.4	866.3	857.1	854.3
52.5°	921.6	896.7	877.0	856.3	840.3	823.0	810.8	799.3	793.2	788.4	787.8
55°	817.6	800.1	787.1	773.3	763.6	753.5	747.2	741.1	738.4	736.0	736.2
57.5°	738.8	727.2	718.7	709.7	704.5	699.6	698.0	696.5	697.3	697.7	699.0
60°	681.5	673.9	668.6	663.4	661.2	659.7	660.9	662.2	665.0	667.3	669.3
62.5°	637.5	633.1	630.5	627.8	627.5	627.7	630.0	632.3	635.9	638.4	640.4
65°	592.2	589.8	589.0	587.1	588.0	588.5	591.4	593.2	596.6	598.7	601.2
67.5°	546.5	545.9	546.5	546.5	548.0	549.4	552.1	554.1	557.1	559.0	561.0
70°	512.7	513.0	514.2	514.4	516.1	517.1	519.4	520.7	523.4	525.0	527.4
72.5°	479.9	479.4	479.7	478.9	479.5	479.2	480.5	481.2	483.4	484.6	487.6
75°	444.9	443.5	443.1	441.4	441.5	440.4	440.9	440.8	442.3	443.0	445.1
77.5°	402.7	400.2	399.0	396.3	396.2	395.2	396.3	396.9	399.6	400.9	403.3
80°	352.1	348.2	346.5	343.4	343.9	343.8	346.3	348.3	351.5	352.0	355.2
82.5°	292.7	288.7	286.9	283.8	284.5	284.5	287.0	287.4	290.1	291.3	294.8
85°	209.6	211.1	206.8	207.1	206.3	208.0	209.6	211.6	213.9	217.7	220.7
87.5°	123.4	122.9	124.4	124.5	126.6	127.8	131.3	133.2	137.0	140.0	145.5
90°	76.8	73.9	74.0	72.3	73.5	71.8	73.0	71.1	72.6	72.0	74.3
92.5°	49.4	46.5	43.1	40.0	36.6	33.6	31.9	30.6	29.0	27.6	25.9
95°	67.5	62.9	58.1	53.4	48.7	44.0	42.3	40.6	38.8	37.1	35.3
97.5°	78.8	73.7	68.6	63.6	58.5	53.5	52.4	51.2	50.0	48.9	47.7
100°	114.0	104.2	94.4	84.7	74.9	65.1	64.2	63.3	62.4	61.4	60.4
102.5°	232.5	210.0	187.6	165.1	142.7	120.2	116.2	112.4	108.5	104.5	100.7
105°	428.3	392.4	356.5	320.7	284.7	248.8	238.1	227.3	216.6	205.9	195.3
107.5°	613.6	578.4	543.4	508.4	473.5	438.5	421.6	404.6	387.7	370.7	353.9
110°	706.3	685.3	664.4	643.2	622.3	601.4	585.2	569.1	552.8	536.7	520.6



TEST NUMBER: P1444372
 CATALOG NUMBER: EHBR1-18-UNV-TA-L840-UPL18

CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
112.5°	716.4	705.9	695.3	684.8	674.3	663.8	656.1	648.1	640.3	632.3	624.5
115°	665.6	662.3	658.9	655.7	652.4	649.0	648.4	648.0	647.3	646.8	646.3
117.5°	581.5	582.2	582.7	583.4	584.1	584.7	588.9	593.1	597.3	601.6	606.0
120°	498.1	500.9	503.7	506.6	509.5	512.5	518.0	523.7	529.3	535.1	540.8
122.5°	428.2	430.1	432.1	434.2	436.2	438.2	443.8	449.3	455.0	460.6	466.5
125°	374.2	374.3	374.4	374.4	374.5	374.8	379.4	383.9	388.6	393.3	397.8
127.5°	337.3	336.0	334.8	333.7	332.4	331.3	333.9	336.6	339.3	342.2	344.9
130°	314.3	312.3	310.1	307.9	305.7	303.6	304.6	305.7	306.7	307.9	309.1
132.5°	300.3	297.8	295.2	292.7	290.1	287.7	287.7	287.6	287.6	287.6	287.8
135°	290.2	288.0	285.4	283.0	280.5	278.3	277.7	277.0	276.5	275.9	275.3
137.5°	282.8	281.0	279.0	277.2	275.2	273.3	272.3	271.5	270.6	269.9	269.2
140°	277.2	275.7	274.0	272.5	270.9	269.5	268.7	268.1	267.2	266.7	266.1
142.5°	272.3	271.2	270.1	269.0	267.9	266.8	266.0	265.3	264.7	264.1	263.3
145°	269.8	269.1	268.3	267.6	266.8	266.1	265.5	265.0	264.5	264.1	263.6
147.5°	265.6	265.2	264.7	264.2	263.7	263.1	262.7	262.5	262.0	261.8	261.4
150°	261.5	261.0	260.5	260.2	259.7	259.3	259.0	258.8	258.6	258.5	258.4
152.5°	256.2	255.8	255.4	255.0	254.6	254.2	254.0	253.9	253.7	253.5	253.4
155°	252.2	251.9	251.7	251.4	251.1	250.9	250.6	250.3	250.1	249.8	249.5
157.5°	249.8	249.6	249.3	249.1	248.8	248.5	248.3	248.1	247.8	247.6	247.3
160°	248.3	248.1	247.8	247.6	247.3	247.1	246.7	246.4	246.0	245.7	245.3
162.5°	248.2	247.8	247.5	247.2	246.8	246.5	246.2	246.0	245.7	245.5	245.2
165°	248.0	247.8	247.6	247.3	247.1	246.9	246.5	246.2	245.7	245.5	245.1
167.5°	249.3	249.2	248.9	248.7	248.4	248.2	247.9	247.6	247.3	246.9	246.4
170°	250.0	249.5	249.3	249.0	248.7	248.4	248.1	247.8	247.4	247.2	246.7
172.5°	251.6	251.3	251.0	250.8	250.5	250.3	250.0	249.8	249.5	249.2	248.9
175°	251.1	251.1	251.0	250.8	250.8	250.7	250.6	250.5	250.4	250.3	250.1
177.5°	251.8	251.8	251.8	251.7	251.6	251.6	251.4	251.3	251.1	250.9	250.8
180°	250.2	250.2	250.2	250.2	250.2	250.2	250.2	250.2	250.2	250.2	250.2



TEST NUMBER: P1444372
 CATALOG NUMBER: EHBR1-18-UNV-TA-L840-UPL18

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	92.5°	95°	97.5°	100°	102.5°	105°	107.5°
0°	15963.5	15963.5	15963.5	15963.5	15963.5	15963.5	15963.5	15963.5	15963.5	15963.5	15963.5
2.5°	16024.9	16020.9	16022.8	16015.3	16017.1	16008.0	16007.2	15997.0	15996.0	15986.3	15982.7
5°	16567.5	16558.6	16568.7	16552.9	16556.1	16535.6	16533.9	16507.5	16498.5	16465.4	16451.1
7.5°	17163.8	17160.5	17166.6	17153.5	17153.1	17134.8	17127.3	17103.7	17089.0	17054.3	17032.2
10°	17294.5	17297.5	17292.5	17293.8	17286.7	17284.7	17277.4	17272.8	17260.9	17251.9	17238.7
12.5°	16752.0	16755.3	16734.6	16747.7	16737.3	16761.5	16759.6	16788.0	16792.5	16828.5	16842.2
15°	15498.2	15494.4	15454.7	15479.7	15466.3	15519.4	15531.3	15602.8	15641.0	15732.7	15789.1
17.5°	13604.3	13594.2	13538.3	13568.7	13553.2	13631.5	13657.8	13772.0	13843.4	13991.2	14096.6
20°	11346.7	11327.1	11261.7	11297.4	11281.4	11370.3	11407.9	11546.0	11638.0	11833.8	11973.1
22.5°	9061.0	9030.0	8966.0	8999.3	8984.2	9076.4	9125.2	9263.8	9369.2	9570.2	9732.8
25°	7008.5	6980.9	6918.9	6942.3	6936.7	7014.7	7058.1	7189.1	7292.6	7484.2	7639.3
27.5°	5345.6	5316.8	5260.8	5277.4	5271.7	5338.1	5379.1	5488.6	5577.7	5738.9	5875.2
30°	4091.2	4056.6	4009.2	4018.2	4014.4	4068.2	4106.4	4198.7	4275.0	4411.2	4528.7
32.5°	3135.9	3101.2	3057.6	3061.8	3056.1	3098.3	3129.8	3210.0	3276.5	3392.4	3494.6
35°	2399.4	2440.1	2346.9	2406.0	2344.5	2434.6	2402.2	2452.4	2509.6	2607.2	2692.4
37.5°	1844.6	1816.2	1792.3	1789.8	1789.7	1810.4	1835.2	1883.4	1933.8	2006.6	2081.7
40°	1461.7	1441.9	1426.3	1425.2	1426.3	1441.2	1459.4	1492.8	1529.7	1581.9	1637.1
42.5°	1212.3	1199.2	1189.8	1189.2	1192.1	1202.6	1215.3	1235.1	1259.1	1293.0	1330.9
45°	1049.4	1042.0	1036.7	1036.4	1037.9	1043.3	1050.6	1063.0	1078.2	1099.3	1123.2
47.5°	934.9	933.1	929.9	930.0	928.5	930.7	931.6	938.5	946.6	962.5	993.9
50°	851.6	851.6	849.4	849.2	847.1	847.0	845.2	848.0	851.7	861.6	871.6
52.5°	785.7	785.5	783.1	782.6	780.4	780.3	778.7	779.8	780.3	785.3	791.3
55°	734.2	732.7	729.5	728.5	727.7	728.9	728.4	728.4	727.8	729.8	731.6
57.5°	697.3	695.3	692.3	691.5	691.2	692.8	692.8	692.3	689.4	687.6	684.9
60°	668.2	666.1	662.8	662.0	662.5	664.6	664.5	662.7	658.6	654.9	650.8
62.5°	639.4	638.6	637.0	636.7	636.3	636.7	635.2	633.2	629.2	625.4	620.8
65°	601.0	601.4	600.1	600.3	598.7	598.5	596.3	594.5	590.4	586.8	582.2
67.5°	560.9	561.2	560.2	560.2	559.5	559.6	558.2	556.5	553.0	550.1	546.6
70°	528.0	528.8	528.2	528.4	527.4	527.1	525.0	523.3	519.7	517.3	514.1
72.5°	488.5	490.3	490.2	490.7	489.3	488.5	485.9	483.9	480.7	478.8	476.1
75°	445.9	448.2	448.9	449.9	447.9	446.8	444.1	442.3	439.7	438.6	436.9
77.5°	404.3	406.8	409.3	411.6	408.2	405.4	401.9	399.3	395.4	394.0	391.3
80°	357.6	362.1	367.5	372.0	366.2	360.2	354.5	350.2	345.2	343.2	339.8
82.5°	296.7	301.3	304.4	307.3	303.2	298.9	293.3	289.6	284.1	282.1	278.3
85°	225.4	231.2	233.0	234.5	231.9	229.6	224.4	217.3	213.9	208.6	205.7
87.5°	148.2	151.7	152.4	152.9	151.2	150.1	146.8	143.5	137.6	133.4	128.1
90°	73.1	74.4	71.9	71.8	70.7	71.8	69.5	69.3	65.4	64.6	61.2
92.5°	24.5	22.9	21.5	19.9	21.7	23.0	24.6	25.9	27.6	29.0	30.6
95°	33.6	31.9	30.2	28.5	29.9	31.2	32.6	34.0	35.3	36.7	38.1
97.5°	46.6	45.5	44.3	43.2	44.0	44.8	45.6	46.4	47.1	47.9	48.7
100°	59.5	58.6	57.7	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8
102.5°	96.8	92.8	89.0	85.1	87.7	90.3	92.9	95.6	98.3	100.9	103.6
105°	184.6	174.0	163.3	152.6	162.9	173.2	183.5	193.9	204.2	214.7	225.0
107.5°	336.9	320.1	303.1	286.3	305.1	324.0	342.8	361.6	380.5	399.4	418.2
110°	504.5	488.5	472.3	456.3	476.2	496.2	516.2	536.2	556.3	576.2	596.4



TEST NUMBER: P1444372
 CATALOG NUMBER: EHBR1-18-UNV-TA-L840-UPL18

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	92.5°	95°	97.5°	100°	102.5°	105°	107.5°
112.5°	616.6	608.8	601.0	593.2	606.1	618.9	631.8	644.8	657.7	670.6	683.5
115°	645.8	645.3	644.9	644.3	650.4	656.6	662.6	668.8	674.9	681.0	687.2
117.5°	610.2	614.5	618.9	623.3	625.2	627.2	629.2	631.1	633.2	635.2	637.3
120°	546.6	552.3	558.2	564.0	563.2	562.4	561.6	560.8	560.3	559.6	559.0
122.5°	472.1	477.9	483.7	489.6	487.9	486.1	484.4	482.8	481.2	479.6	478.1
125°	402.8	407.5	412.5	417.3	415.6	413.9	412.3	410.7	409.0	407.5	406.1
127.5°	347.9	350.9	353.8	356.8	356.0	355.2	354.6	353.9	353.3	352.7	352.2
130°	310.4	311.6	313.0	314.4	314.6	314.8	315.2	315.5	316.0	316.4	317.0
132.5°	288.0	288.2	288.5	288.8	289.7	290.6	291.7	292.7	294.0	295.1	296.4
135°	275.0	274.6	274.3	274.1	275.6	276.8	278.3	279.8	281.4	283.1	284.9
137.5°	268.5	267.9	267.4	266.9	268.3	269.6	271.1	272.6	274.1	275.9	277.8
140°	265.6	265.0	264.7	264.2	265.6	266.9	268.4	269.9	271.5	273.1	275.0
142.5°	262.9	262.3	261.9	261.6	262.8	264.1	265.5	266.8	268.3	269.7	271.4
145°	263.1	262.7	262.5	262.2	263.1	264.1	265.0	266.0	267.2	268.2	269.5
147.5°	261.2	260.9	260.8	260.6	261.3	262.0	262.7	263.4	264.3	265.1	266.1
150°	258.4	258.2	258.1	258.1	258.5	258.8	259.4	259.7	260.4	260.8	261.6
152.5°	253.4	253.2	253.2	253.1	253.5	253.9	254.4	254.7	255.3	255.7	256.3
155°	249.4	249.2	249.1	248.9	249.0	249.2	249.4	249.4	249.8	249.9	250.2
157.5°	247.2	247.0	246.8	246.6	246.6	246.5	246.6	246.5	246.7	246.7	246.8
160°	245.0	244.6	244.4	244.1	244.2	244.1	244.4	244.3	244.5	244.6	244.8
162.5°	245.0	244.8	244.6	244.4	244.3	244.0	243.9	243.7	243.6	243.5	243.4
165°	244.7	244.3	244.0	243.6	243.6	243.5	243.6	243.5	243.5	243.4	243.5
167.5°	246.2	245.8	245.6	245.2	245.0	244.7	244.5	244.2	243.9	243.7	243.6
170°	246.5	246.2	246.0	245.7	245.6	245.4	245.3	245.2	245.1	245.0	245.0
172.5°	248.7	248.4	248.2	248.0	247.9	247.7	247.7	247.6	247.5	247.5	247.4
175°	250.1	250.0	249.9	249.8	249.6	249.5	249.3	249.2	249.1	248.9	248.7
177.5°	250.6	250.4	250.3	250.2	250.1	250.1	250.1	250.1	250.1	250.0	250.0
180°	250.2	250.2	250.2	250.2	250.2	250.2	250.2	250.2	250.2	250.2	250.2



TEST NUMBER: P1444372
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CANDELA DISTRIBUTION (continued):

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°
0°	15963.5	15963.5	15963.5	15963.5	15963.5	15963.5	15963.5	15963.5	15963.5	15963.5	15963.5
2.5°	15972.4	15968.1	15957.0	15951.7	15941.4	15936.2	15928.3	15923.1	15916.7	15911.9	15909.4
5°	16414.9	16394.4	16353.6	16328.3	16284.2	16255.0	16211.1	16178.9	16133.6	16100.2	16057.3
7.5°	16990.7	16959.3	16906.9	16867.2	16805.3	16758.0	16688.7	16633.2	16556.5	16492.8	16414.5
10°	17225.0	17206.8	17183.3	17157.6	17123.4	17089.8	17042.4	16994.2	16929.8	16865.7	16782.1
12.5°	16878.6	16895.8	16929.8	16945.7	16971.6	16980.5	16992.3	16986.7	16976.2	16950.1	16912.2
15°	15897.4	15969.2	16082.9	16161.5	16271.5	16348.8	16451.1	16517.0	16592.8	16638.2	16681.2
17.5°	14283.3	14422.3	14622.8	14782.7	14997.4	15171.9	15385.8	15553.8	15747.9	15896.7	16055.1
20°	12216.0	12410.6	12687.4	12922.4	13233.4	13497.2	13835.1	14118.2	14448.5	14723.7	15020.9
22.5°	9990.9	10219.9	10537.0	10820.4	11191.8	11523.7	11947.1	12321.4	12767.9	13167.8	13610.2
25°	7891.8	8116.2	8439.2	8732.7	9133.8	9499.2	9961.9	10391.2	10909.3	11392.4	11947.1
27.5°	6091.7	6291.1	6574.9	6839.2	7206.5	7565.3	8034.7	8492.7	9045.5	9564.6	10162.3
30°	4704.5	4866.2	5093.7	5306.2	5601.2	5894.6	6312.7	6736.2	7286.3	7824.3	8437.2
32.5°	3645.8	3783.7	3973.6	4146.2	4373.4	4594.7	4902.6	5240.9	5723.6	6238.8	6831.4
35°	2822.3	2940.2	3101.9	3250.5	3437.4	3613.0	3842.8	4084.3	4452.6	4886.1	5416.3
37.5°	2250.1	2298.2	2413.5	2535.3	2690.5	2834.9	3014.6	3193.2	3456.6	3798.7	4231.8
40°	1711.2	1787.5	1881.5	1977.3	2094.8	2210.6	2407.8	2502.7	2676.3	2921.8	3258.0
42.5°	1380.7	1434.4	1500.5	1567.2	1649.0	1729.7	1829.4	1931.0	2060.7	2227.0	2466.1
45°	1155.4	1190.4	1233.0	1277.4	1331.2	1386.3	1453.1	1522.8	1610.7	1712.9	1858.2
47.5°	1004.9	1024.2	1052.0	1082.4	1119.3	1157.3	1200.8	1245.2	1299.8	1360.4	1443.2
50°	887.4	903.6	925.2	945.4	970.9	1009.9	1027.2	1051.7	1084.5	1120.2	1166.4
52.5°	802.4	813.2	826.7	838.4	854.4	869.1	888.2	905.2	927.9	949.3	979.1
55°	736.2	740.1	747.8	755.2	766.4	776.4	789.5	800.5	815.1	827.9	846.8
57.5°	685.0	685.4	688.9	692.9	700.0	706.3	715.4	722.6	732.6	740.8	752.1
60°	648.3	646.4	647.1	648.4	652.4	656.6	662.3	667.0	673.4	678.0	684.3
62.5°	617.7	614.7	614.0	613.6	615.6	617.1	620.2	622.6	626.1	628.1	631.5
65°	579.1	575.4	574.0	572.4	573.0	572.5	573.7	573.7	575.6	576.0	578.0
67.5°	544.1	541.0	539.2	537.0	536.0	534.4	533.7	532.1	531.8	530.5	530.2
70°	512.1	509.1	507.6	505.5	504.5	502.4	501.1	498.4	496.9	494.5	493.1
72.5°	475.1	473.5	473.0	471.6	471.2	470.1	469.5	467.7	466.7	464.5	463.3
75°	436.5	435.2	435.0	433.6	433.5	432.1	431.8	429.7	428.7	426.7	425.8
77.5°	390.5	388.5	387.9	386.2	386.6	385.9	386.5	385.0	384.4	382.3	381.7
80°	338.6	336.0	335.0	332.8	333.4	332.4	333.4	333.3	334.1	332.4	332.1
82.5°	277.3	274.3	273.8	272.3	273.3	273.4	275.7	274.4	275.0	273.4	274.0
85°	201.7	199.6	196.7	196.3	194.3	196.4	193.7	195.4	192.7	194.6	192.0
87.5°	125.1	120.7	118.4	115.2	114.0	111.1	109.8	107.7	108.3	107.3	107.9
90°	61.2	58.3	58.9	57.3	58.6	57.4	59.1	58.7	60.8	60.4	62.7
92.5°	31.9	33.4	36.0	39.0	41.7	44.4	47.1	50.0	52.7	55.6	58.2
95°	39.5	40.9	44.5	48.2	51.9	55.6	59.2	63.0	66.6	70.3	74.0
97.5°	49.5	50.3	54.0	57.7	61.3	65.1	68.7	72.5	76.2	79.9	83.5
100°	56.8	56.9	67.4	77.8	88.3	98.9	109.3	119.8	130.4	140.8	151.2
102.5°	106.2	108.9	135.3	161.8	188.3	214.7	241.2	267.7	294.1	320.7	347.2
105°	235.4	245.8	286.2	326.5	366.8	407.2	447.6	488.1	528.4	568.9	609.2
107.5°	437.1	456.1	492.6	529.0	565.4	602.0	638.6	675.0	711.5	748.1	784.7
110°	616.4	636.4	660.8	685.3	709.7	734.2	758.7	783.2	807.7	832.2	856.7



TEST NUMBER: P1444372
 CATALOG NUMBER: EHBR1-18-UNV-TA-L840-UPL18

CANDELA DISTRIBUTION (continued):

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°
112.5°	696.3	709.3	723.6	737.9	752.1	766.4	780.7	795.0	809.3	823.6	838.0
115°	693.5	699.6	705.1	710.7	716.3	721.8	727.5	733.1	738.9	744.4	750.2
117.5°	639.3	641.4	642.3	643.2	644.1	645.2	646.1	647.1	648.2	649.2	650.2
120°	558.3	557.7	556.8	555.9	555.1	554.1	553.4	552.5	551.8	551.0	550.3
122.5°	476.4	475.0	474.2	473.3	472.6	471.9	471.1	470.5	469.8	469.1	468.4
125°	404.6	403.2	404.1	404.9	405.8	406.7	407.6	408.6	409.7	410.6	411.6
127.5°	351.6	351.2	353.4	355.6	357.8	360.0	362.2	364.6	366.8	369.1	371.3
130°	317.6	318.2	321.0	323.9	326.5	329.4	332.4	335.4	338.0	340.9	343.8
132.5°	297.7	299.2	301.8	304.4	307.2	310.1	312.7	315.5	318.3	321.2	323.8
135°	286.7	288.6	290.9	293.5	295.9	298.6	301.1	303.7	306.0	308.8	311.2
137.5°	279.4	281.3	283.3	285.3	287.4	289.5	291.5	293.6	295.5	297.7	299.7
140°	276.6	278.5	279.6	280.9	282.0	283.2	284.3	285.6	286.7	288.0	289.1
142.5°	272.8	274.6	275.3	276.2	276.9	277.9	278.6	279.5	280.1	280.9	281.6
145°	270.6	271.9	272.0	272.1	272.3	272.5	272.5	272.7	272.7	272.8	272.9
147.5°	267.0	268.0	267.9	267.8	267.8	267.7	267.7	267.5	267.4	267.3	267.2
150°	262.1	262.8	262.4	262.3	261.9	261.8	261.4	261.2	260.8	260.7	260.3
152.5°	256.8	257.4	256.9	256.8	256.3	256.0	255.6	255.4	254.9	254.6	254.3
155°	250.4	250.7	250.5	250.3	250.1	249.9	249.6	249.6	249.5	249.2	249.1
157.5°	246.8	246.8	246.7	246.6	246.5	246.4	246.2	246.2	246.2	246.2	246.3
160°	244.8	245.0	244.8	244.7	244.6	244.5	244.3	244.3	244.3	244.4	244.4
162.5°	243.2	243.2	243.0	242.9	242.8	242.8	242.6	242.7	242.7	242.7	242.8
165°	243.6	243.7	243.4	243.2	243.0	242.8	242.6	242.5	242.5	242.4	242.3
167.5°	243.4	243.3	243.3	243.4	243.4	243.5	243.5	243.8	243.8	244.0	244.1
170°	245.0	245.0	244.9	244.8	244.6	244.6	244.6	244.5	244.4	244.4	244.4
172.5°	247.4	247.4	247.2	246.9	246.7	246.6	246.3	246.2	246.0	245.8	245.6
175°	248.6	248.5	248.4	248.3	248.2	248.0	247.8	247.6	247.5	247.4	247.3
177.5°	249.9	249.8	249.7	249.7	249.7	249.6	249.6	249.6	249.6	249.6	249.5
180°	250.2	250.2	250.2	250.2	250.2	250.2	250.2	250.2	250.2	250.2	250.2



TEST NUMBER: P1444372
 CATALOG NUMBER: EHBR1-18-UNV-TA-L840-UPL18

CANDELA DISTRIBUTION (continued):

	137.5°	140°	142.5°	145°	147.5°	150°	152.5°	155°	157.5°	160°	162.5°
0°	15963.5	15963.5	15963.5	15963.5	15963.5	15963.5	15963.5	15963.5	15963.5	15963.5	15963.5
2.5°	15906.2	15906.0	15904.5	15905.2	15905.5	15906.6	15908.0	15909.4	15909.7	15910.8	15911.0
5°	16025.2	15985.9	15956.8	15924.7	15900.7	15879.0	15864.6	15853.1	15848.7	15849.8	15852.5
7.5°	16348.0	16266.8	16199.8	16123.5	16060.1	15992.8	15937.0	15884.0	15845.3	15816.5	15800.4
10°	16702.3	16603.3	16508.7	16398.4	16293.7	16182.1	16081.0	15979.2	15894.3	15820.6	15766.4
12.5°	16859.4	16789.5	16707.7	16603.6	16491.7	16362.9	16232.8	16093.3	15963.7	15843.2	15746.2
15°	16693.0	16693.1	16663.3	16613.4	16535.6	16432.7	16308.8	16163.4	16010.4	15854.2	15711.6
17.5°	16164.7	16264.4	16319.8	16354.9	16344.1	16306.2	16227.3	16115.6	15973.1	15806.8	15632.7
20°	15257.4	15492.5	15660.2	15810.9	15895.4	15951.5	15945.9	15900.4	15798.9	15657.5	15476.2
22.5°	13986.5	14381.1	14692.5	14982.8	15186.5	15352.1	15430.8	15464.3	15418.3	15319.7	15149.5
25°	12442.8	12979.4	13437.3	13881.6	14214.9	14501.3	14673.6	14794.9	14804.5	14753.0	14601.1
27.5°	10727.5	11360.8	11940.3	12530.9	12999.7	13411.5	13681.6	13879.5	13942.3	13934.0	13796.1
30°	9014.4	9679.2	10318.0	11006.7	11586.8	12112.8	12469.8	12737.3	12840.3	12860.1	12727.4
32.5°	7396.6	8052.1	8689.2	9409.1	10047.4	10650.4	11072.2	11389.8	11509.7	11537.9	11392.4
35°	5928.2	6533.1	7138.5	7836.2	8470.9	9095.2	9539.6	9872.3	9984.2	10003.0	9834.6
37.5°	4654.9	5170.3	5697.8	6323.8	6906.7	7493.0	7915.3	8227.9	8309.4	8304.4	8113.8
40°	3582.9	3983.5	4407.3	4922.7	5407.3	5903.1	6259.5	6517.9	6560.8	6529.0	6328.9
42.5°	2694.1	2983.4	3290.8	3675.5	4035.0	4406.0	4665.4	4857.2	4863.4	4813.2	4633.4
45°	2007.1	2289.4	2418.3	2650.9	2882.5	3129.2	3287.5	3406.1	3387.7	3343.6	3207.0
47.5°	1530.0	1638.6	1753.6	1897.9	2032.7	2312.7	2291.9	2482.3	2345.2	2438.7	2232.9
50°	1215.0	1275.7	1337.6	1414.2	1484.6	1557.9	1603.6	1637.7	1633.3	1618.6	1579.2
52.5°	1033.7	1052.5	1083.0	1126.5	1165.9	1205.5	1231.5	1252.7	1253.1	1247.1	1227.2
55°	863.9	887.7	909.7	938.2	986.6	994.1	1031.4	1023.8	1026.8	1016.4	1027.0
57.5°	761.7	775.5	787.9	804.9	818.9	835.3	844.8	854.1	853.2	851.2	841.1
60°	689.3	696.9	703.8	713.7	721.3	730.6	735.1	739.8	738.2	734.8	725.8
62.5°	633.5	638.3	642.1	648.6	653.2	659.0	661.3	663.3	661.3	658.0	650.0
65°	578.4	581.5	583.9	588.8	592.1	596.9	598.9	600.8	598.9	596.4	590.4
67.5°	528.7	529.0	528.7	530.7	531.7	534.7	535.6	536.9	534.8	532.6	527.4
70°	491.0	490.2	489.3	490.1	490.2	491.7	491.9	491.7	489.1	485.3	479.7
72.5°	461.5	461.1	460.4	461.0	461.0	462.3	461.9	461.3	458.2	454.5	448.9
75°	423.7	423.4	422.0	422.0	420.9	421.3	419.7	418.8	415.3	412.3	407.2
77.5°	379.4	378.7	376.6	375.8	373.5	372.6	369.7	368.3	364.8	362.2	358.0
80°	329.8	329.1	326.4	325.0	321.5	319.1	314.9	312.5	308.5	306.0	301.9
82.5°	272.6	272.9	270.3	268.5	263.3	259.5	253.8	250.7	246.2	243.9	239.6
85°	193.9	191.1	192.6	192.5	189.3	186.0	181.3	178.1	174.3	172.0	169.0
87.5°	106.3	107.1	106.2	105.6	103.3	101.6	98.1	96.2	93.3	92.0	89.7
90°	58.3	56.6	52.5	50.8	46.7	44.1	39.6	37.3	33.1	32.1	29.5
92.5°	55.1	52.1	49.0	45.8	42.9	39.8	36.6	33.6	30.5	29.4	28.4
95°	69.5	65.1	60.6	56.1	51.7	47.1	42.8	38.2	33.8	32.9	32.0
97.5°	78.4	73.1	67.8	62.6	57.2	52.0	46.8	41.5	36.2	35.6	35.1
100°	139.0	126.9	114.8	102.6	90.5	78.3	66.2	54.0	41.9	41.2	40.5
102.5°	317.6	288.2	258.7	229.1	199.8	170.2	140.8	111.3	81.8	77.6	73.4
105°	564.6	519.9	475.4	430.8	386.1	341.5	296.9	252.2	207.7	193.3	178.9
107.5°	742.7	700.6	658.9	616.9	574.9	533.1	491.1	449.1	407.0	381.8	356.7
110°	823.4	790.1	757.0	723.7	690.4	657.1	623.8	590.4	557.2	535.4	513.7



TEST NUMBER: P1444372
 CATALOG NUMBER: EHBR1-18-UNV-TA-L840-UPL18

CANDELA DISTRIBUTION (continued):

	137.5°	140°	142.5°	145°	147.5°	150°	152.5°	155°	157.5°	160°	162.5°
112.5°	813.6	789.2	764.9	740.4	716.2	691.7	667.3	642.8	618.4	605.2	592.0
115°	735.6	720.9	706.2	691.6	676.8	662.1	647.5	632.6	617.9	610.9	604.0
117.5°	642.8	635.3	627.8	620.2	612.8	605.1	597.6	590.1	582.5	580.1	577.7
120°	548.2	546.0	543.5	541.2	539.0	536.7	534.3	531.9	529.5	529.8	530.1
122.5°	469.4	470.2	471.1	471.8	472.8	473.5	474.5	475.1	476.0	477.9	479.8
125°	413.8	415.9	418.1	420.2	422.4	424.5	426.7	428.6	430.8	432.7	434.7
127.5°	373.8	376.3	378.7	381.1	383.5	385.9	388.4	390.8	393.1	394.7	396.6
130°	346.0	348.0	350.2	352.2	354.5	356.5	358.6	360.7	362.7	364.1	365.5
132.5°	325.8	327.6	329.5	331.4	333.3	335.1	337.1	338.8	340.8	341.8	342.9
135°	312.6	313.9	315.4	316.7	318.3	319.7	321.1	322.5	324.0	324.7	325.3
137.5°	300.9	302.0	303.1	304.2	305.4	306.5	307.7	309.0	310.3	310.6	311.1
140°	290.3	291.5	292.7	294.0	295.2	296.4	297.9	299.2	300.6	300.9	301.4
142.5°	282.6	283.4	284.4	285.3	286.4	287.4	288.5	289.5	290.6	291.0	291.4
145°	274.0	275.2	276.4	277.5	278.6	279.8	281.1	282.4	283.7	284.0	284.2
147.5°	268.2	269.1	270.2	271.2	272.1	273.1	274.3	275.5	276.8	277.0	277.1
150°	261.4	262.4	263.4	264.5	265.7	266.8	268.0	269.3	270.6	271.0	271.4
152.5°	255.4	256.5	257.6	258.8	260.1	261.3	262.7	264.1	265.4	265.7	266.2
155°	250.3	251.3	252.6	253.8	255.1	256.3	257.6	258.8	260.1	260.6	261.0
157.5°	247.3	248.2	249.3	250.4	251.5	252.7	253.9	255.0	256.2	256.6	256.9
160°	245.4	246.3	247.2	248.1	249.1	250.1	251.1	252.1	253.2	253.6	253.9
162.5°	243.7	244.7	245.6	246.4	247.5	248.5	249.4	250.4	251.4	251.7	252.1
165°	243.1	243.7	244.5	245.1	245.9	246.5	247.3	247.9	248.8	249.1	249.5
167.5°	244.7	245.2	245.7	246.3	246.9	247.4	248.0	248.6	249.2	249.5	249.9
170°	244.9	245.4	245.8	246.4	246.9	247.4	247.9	248.4	249.0	249.3	249.6
172.5°	245.9	246.2	246.6	246.8	247.2	247.5	247.9	248.3	248.6	249.0	249.3
175°	247.5	247.6	247.8	247.9	248.1	248.3	248.5	248.7	248.9	249.1	249.5
177.5°	249.6	249.7	249.9	250.0	250.2	250.3	250.5	250.6	250.8	251.1	251.5
180°	250.2	250.2	250.2	250.2	250.2	250.2	250.2	250.2	250.2	250.2	250.2



TEST NUMBER: P1444372
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CANDELA DISTRIBUTION (continued):

	165°	167.5°	170°	172.5°	175°	177.5°	180°	182.5°	185°	187.5°	190°
0°	15963.5	15963.5	15963.5	15963.5	15963.5	15963.5	15963.5	15963.5	15963.5	15963.5	15963.5
2.5°	15910.5	15910.3	15909.8	15909.1	15908.4	15908.8	15909.5	15911.3	15914.6	15919.2	15925.1
5°	15854.7	15857.9	15859.8	15860.0	15858.4	15857.3	15858.9	15863.3	15872.1	15886.8	15906.9
7.5°	15796.1	15800.1	15806.3	15810.9	15811.7	15810.6	15810.9	15817.8	15834.0	15862.8	15903.3
10°	15733.5	15721.6	15728.0	15739.4	15748.6	15750.2	15751.3	15759.4	15783.2	15826.8	15891.6
12.5°	15675.8	15638.2	15630.9	15641.3	15655.1	15659.6	15658.3	15661.8	15689.6	15747.3	15837.8
15°	15599.8	15529.0	15504.8	15507.5	15524.6	15530.7	15526.3	15519.4	15546.6	15616.9	15733.9
17.5°	15477.0	15362.7	15318.2	15316.3	15336.3	15341.6	15330.6	15309.4	15336.1	15423.9	15569.2
20°	15290.0	15121.5	15037.7	15024.4	15046.1	15039.8	15017.9	14985.7	15020.8	15127.5	15300.4
22.5°	14954.0	14740.5	14597.3	14551.2	14577.1	14559.9	14527.8	14486.7	14533.4	14654.7	14847.2
25°	14405.0	14158.2	13962.3	13852.4	13873.0	13842.0	13807.2	13757.3	13813.0	13952.3	14164.1
27.5°	13598.0	13312.9	13070.2	12888.2	12894.9	12854.2	12814.1	12749.5	12819.0	12983.8	13222.8
30°	12524.9	12195.1	11899.4	11652.1	11629.9	11590.5	11549.4	11464.8	11551.7	11749.0	12028.3
32.5°	11177.3	10811.1	10469.5	10156.8	10097.8	10059.2	10022.6	9925.2	10039.1	10269.1	10590.1
35°	9601.3	9211.3	8840.9	8483.7	8386.0	8347.5	8315.5	8222.1	8364.2	8614.5	8961.1
37.5°	7871.5	7473.0	7105.2	6739.0	6600.9	6548.7	6525.4	6464.3	6628.2	6875.7	7223.7
40°	6095.6	5725.1	5395.3	5071.9	4914.4	4834.5	4822.3	4811.2	4969.7	5184.4	5500.4
42.5°	4434.4	4135.4	3881.1	3633.9	3491.2	3382.1	3382.1	3415.2	3557.8	3718.8	3962.3
45°	3067.4	2866.8	2704.7	2539.6	2583.7	2366.1	2493.9	2428.4	2498.9	2602.6	2760.9
47.5°	2108.5	1999.0	1910.0	1817.7	1750.4	1686.2	1691.8	1733.3	1799.7	1861.2	1943.6
50°	1536.7	1481.0	1435.6	1387.7	1354.3	1325.9	1327.5	1345.5	1380.4	1412.8	1455.9
52.5°	1204.1	1173.4	1148.7	1122.2	1104.7	1090.6	1091.3	1100.1	1119.0	1137.4	1162.2
55°	992.6	988.8	956.7	933.0	923.9	914.5	916.2	919.6	932.4	943.3	959.7
57.5°	831.7	817.3	807.7	795.2	789.4	782.9	784.3	785.6	794.2	801.4	813.3
60°	718.2	708.0	701.2	692.7	688.8	684.7	685.6	686.4	691.9	696.6	705.1
62.5°	642.7	633.7	627.7	621.1	618.5	615.7	616.3	616.5	619.9	623.5	629.8
65°	584.9	577.7	572.7	567.1	564.3	561.3	561.6	561.6	564.5	567.1	571.9
67.5°	523.7	518.2	515.1	510.6	508.6	505.7	505.6	504.7	506.5	507.5	510.9
70°	474.6	469.1	465.0	460.7	458.3	455.7	455.8	455.8	458.0	460.3	464.4
72.5°	444.3	439.0	435.4	431.5	429.3	427.1	426.7	426.4	428.0	429.3	432.1
75°	404.1	399.9	397.7	394.2	392.4	389.9	389.5	388.3	389.1	389.3	391.4
77.5°	355.4	351.3	349.6	346.1	344.6	341.6	341.4	340.1	340.7	340.3	342.0
80°	299.8	296.1	295.2	292.3	291.6	288.9	288.5	286.9	287.4	286.2	286.7
82.5°	237.8	234.5	233.8	231.1	231.1	228.6	228.4	226.0	226.0	224.0	220.7
85°	167.5	165.1	164.1	161.8	161.1	159.2	158.2	155.9	155.1	153.6	153.1
87.5°	88.4	86.9	85.5	84.5	82.4	79.0	78.7	76.3	76.5	74.8	74.9
90°	28.7	26.2	25.5	23.3	22.4	20.7	20.0	20.4	21.1	21.5	22.3
92.5°	27.3	26.3	25.2	24.2	23.2	22.1	21.1	22.1	23.2	24.2	25.2
95°	31.1	30.2	29.2	28.3	27.3	26.4	25.5	26.4	27.3	28.3	29.2
97.5°	34.5	33.9	33.4	32.8	32.2	31.7	31.1	31.8	32.3	32.9	33.5
100°	39.9	39.1	38.4	37.7	37.1	36.4	35.7	36.5	37.2	37.8	38.5
102.5°	69.0	64.8	60.5	56.3	52.0	47.7	43.5	47.7	52.0	56.4	60.6
105°	164.6	150.3	135.9	121.6	107.3	92.8	78.5	92.8	107.3	121.6	136.0
107.5°	331.4	306.2	280.9	255.7	230.4	205.1	179.8	205.2	230.5	255.8	281.0
110°	491.9	470.1	448.3	426.5	404.7	382.8	361.0	382.9	404.8	426.6	448.5



TEST NUMBER: P1444372
 CATALOG NUMBER: EHBR1-18-UNV-TA-L840-UPL18

CANDELA DISTRIBUTION (continued):

	165°	167.5°	170°	172.5°	175°	177.5°	180°	182.5°	185°	187.5°	190°
112.5°	578.8	565.5	552.2	539.0	525.7	512.5	499.2	512.6	525.9	539.3	552.5
115°	597.0	590.0	583.1	576.0	569.0	562.0	554.8	562.2	569.3	576.4	583.6
117.5°	575.1	572.7	570.3	567.9	565.2	562.8	560.2	562.9	565.5	568.4	570.9
120°	530.3	530.6	530.9	531.1	531.3	531.5	531.6	531.7	531.7	531.7	531.6
122.5°	481.5	483.3	485.0	486.8	488.6	490.3	491.9	490.5	489.0	487.6	486.0
125°	436.5	438.4	440.1	442.0	443.8	445.7	447.2	446.0	444.5	443.0	441.2
127.5°	398.3	400.0	401.6	403.3	404.8	406.3	407.7	406.7	405.4	404.2	402.8
130°	366.7	368.1	369.1	370.4	371.5	372.6	373.6	372.9	372.1	371.5	370.5
132.5°	343.8	344.8	345.8	346.7	347.5	348.3	348.9	348.6	348.2	347.8	347.2
135°	326.0	326.7	327.3	328.0	328.5	328.9	329.2	329.3	329.2	329.1	328.8
137.5°	311.3	311.8	312.1	312.3	312.4	312.6	312.6	313.0	313.2	313.6	313.6
140°	301.6	302.0	302.4	302.6	302.8	303.0	303.0	303.4	303.6	303.9	303.9
142.5°	291.7	292.1	292.4	292.7	292.8	293.0	293.0	293.4	293.6	293.9	294.0
145°	284.4	284.6	284.8	284.9	285.0	284.9	284.8	285.3	285.7	286.1	286.5
147.5°	277.4	277.5	277.7	277.7	277.8	277.7	277.7	278.1	278.5	278.8	279.2
150°	271.7	272.1	272.4	272.7	272.8	273.0	273.1	273.4	273.6	273.8	273.9
152.5°	266.5	266.8	267.0	267.3	267.5	267.6	267.7	268.0	268.3	268.5	268.6
155°	261.4	261.8	262.1	262.5	262.7	263.0	263.2	263.6	263.7	263.9	264.0
157.5°	257.3	257.7	258.0	258.3	258.5	258.9	259.1	259.4	259.6	259.8	260.0
160°	254.2	254.6	254.9	255.2	255.5	255.8	256.0	256.3	256.6	256.7	257.0
162.5°	252.5	252.8	253.0	253.3	253.6	253.9	254.2	254.5	254.7	254.9	255.1
165°	249.9	250.3	250.7	251.1	251.5	251.9	252.2	252.5	252.6	252.7	252.8
167.5°	250.2	250.6	251.0	251.4	251.6	252.0	252.5	252.6	252.7	252.8	252.8
170°	249.9	250.3	250.7	251.0	251.3	251.6	251.8	251.9	252.0	252.1	252.2
172.5°	249.7	250.2	250.5	250.9	251.3	251.7	252.0	252.1	252.0	251.8	251.7
175°	249.7	250.1	250.5	250.8	251.1	251.5	251.8	251.6	251.5	251.4	251.3
177.5°	251.9	252.4	252.9	253.2	253.5	253.9	254.3	254.0	253.7	253.4	253.1
180°	250.2	250.2	250.2	250.2	250.2	250.2	250.2	250.2	250.2	250.2	250.2



TEST NUMBER: P1444372
 CATALOG NUMBER: EHBR1-18-UNV-TA-L840-UPL18

CANDELA DISTRIBUTION (continued):

	192.5°	195°	197.5°	200°	202.5°	205°	207.5°	210°	212.5°	215°	217.5°
0°	15963.5	15963.5	15963.5	15963.5	15963.5	15963.5	15963.5	15963.5	15963.5	15963.5	15963.5
2.5°	15933.7	15941.7	15953.9	15964.9	15981.6	15994.7	16014.4	16029.4	16051.6	16066.1	16090.2
5°	15935.1	15966.3	16007.3	16047.3	16095.4	16139.1	16193.3	16239.6	16294.0	16338.5	16394.3
7.5°	15957.6	16017.8	16089.8	16162.5	16244.6	16321.4	16407.9	16486.3	16571.8	16644.4	16723.5
10°	15974.3	16067.0	16173.2	16280.0	16392.5	16497.0	16602.5	16693.7	16778.9	16849.0	16910.9
12.5°	15951.8	16079.5	16215.7	16347.3	16472.4	16580.5	16671.3	16741.4	16789.8	16822.7	16830.3
15°	15875.1	16028.9	16177.0	16308.1	16411.8	16491.9	16533.3	16552.6	16531.9	16497.3	16421.4
17.5°	15732.0	15894.2	16026.6	16130.0	16184.8	16206.6	16172.2	16112.5	15995.9	15866.3	15679.4
20°	15469.7	15620.6	15716.8	15773.2	15758.5	15704.2	15574.6	15417.1	15184.2	14936.0	14608.4
22.5°	15009.4	15141.5	15192.6	15196.9	15107.4	14971.4	14737.8	14467.6	14100.2	13718.2	13248.4
25°	14318.6	14434.2	14442.3	14396.9	14233.1	14012.9	13669.8	13287.6	12788.4	12279.3	11690.6
27.5°	13381.7	13492.5	13465.4	13380.7	13153.2	12858.7	12419.3	11925.7	11310.1	10708.9	10057.6
30°	12204.0	12322.5	12290.6	12181.9	11911.4	11563.2	11046.2	10472.7	9789.3	9147.2	8487.2
32.5°	10794.5	10944.4	10922.4	10819.1	10536.8	10164.3	9603.3	8995.0	8295.7	7663.0	7020.9
35°	9192.5	9374.6	9384.0	9316.4	9054.4	8686.1	8132.2	7543.4	6873.6	6276.6	5683.5
37.5°	7466.5	7677.6	7721.0	7702.7	7485.6	7160.5	6655.8	6127.6	5534.3	5011.0	4503.8
40°	5731.0	5944.6	6018.8	6040.8	5880.6	5628.7	5214.5	4788.2	4304.5	3880.5	3477.7
42.5°	4148.3	4337.7	4409.3	4454.4	4354.3	4186.4	3884.3	3574.7	3220.3	2914.5	2621.3
45°	2881.1	3015.1	3069.6	3114.9	3060.4	2965.8	2775.0	2581.2	2347.3	2147.5	1958.3
47.5°	2014.3	2088.2	2124.1	2146.1	2125.1	2075.7	1971.8	1859.7	1727.6	1610.9	1498.6
50°	1493.0	1532.4	1551.2	1563.9	1548.5	1521.1	1464.9	1403.8	1331.3	1265.2	1200.5
52.5°	1183.2	1205.8	1217.0	1223.8	1214.9	1198.2	1165.5	1129.3	1085.8	1044.9	1023.4
55°	996.8	995.6	1021.4	1009.0	1021.4	993.6	987.7	948.0	911.8	886.4	858.9
57.5°	822.0	833.7	838.7	844.2	840.6	835.6	821.6	807.4	788.3	772.4	755.4
60°	711.5	721.2	726.7	732.1	731.8	729.9	721.8	713.4	701.5	691.9	681.6
62.5°	635.5	643.8	649.2	654.4	654.9	654.1	648.1	642.1	634.1	628.1	620.9
65°	575.6	581.5	585.1	589.4	589.1	587.9	582.5	577.6	570.9	566.8	561.5
67.5°	513.0	517.4	520.2	524.2	525.0	525.2	522.2	519.8	516.6	515.4	513.7
70°	468.4	473.7	478.4	483.3	486.0	487.3	486.0	484.9	483.0	482.2	480.8
72.5°	434.7	439.2	442.7	447.3	449.9	451.7	450.7	450.0	448.4	448.2	447.2
75°	392.8	395.9	397.9	401.4	402.7	404.4	403.7	404.1	403.5	404.8	404.8
77.5°	342.5	344.8	345.7	348.2	348.4	350.5	350.9	353.4	355.1	358.9	360.9
80°	285.7	287.3	287.3	289.8	290.9	294.4	296.0	300.0	301.9	305.2	305.5
82.5°	222.0	220.3	222.0	220.9	224.2	228.0	228.6	232.0	232.8	234.9	233.2
85°	151.8	151.7	150.2	150.5	149.5	149.9	149.4	150.0	149.4	149.5	147.9
87.5°	72.7	73.4	71.7	72.3	70.7	71.4	70.1	71.1	69.6	69.8	67.4
90°	22.8	23.5	24.1	24.8	25.7	27.6	29.7	31.6	33.8	35.6	37.7
92.5°	26.3	27.4	28.5	29.6	30.6	33.7	36.7	39.9	43.0	46.0	49.1
95°	30.2	31.1	32.0	33.0	33.9	38.3	42.9	47.3	51.9	56.3	60.8
97.5°	34.1	34.7	35.3	35.8	36.4	41.7	47.0	52.3	57.5	62.9	68.1
100°	39.4	40.1	40.7	41.4	42.1	54.3	66.5	78.6	90.8	103.0	115.2
102.5°	64.9	69.1	73.5	77.9	82.1	111.7	141.2	170.7	200.1	229.5	259.1
105°	150.4	164.8	179.2	193.6	208.0	252.7	297.4	342.1	386.6	431.2	475.9
107.5°	306.4	331.7	357.0	382.2	407.5	449.6	491.7	533.6	575.6	617.6	659.6
110°	470.4	492.2	514.1	536.0	557.8	591.1	624.6	657.9	691.2	724.6	757.9



TEST NUMBER: P1444372
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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°	566.0	579.3	592.6	605.8	619.1	643.6	668.2	692.7	717.2	741.5	766.0
115°	590.7	597.6	604.8	611.8	618.9	633.8	648.5	663.3	678.0	692.8	707.6
117.5°	573.4	576.0	578.7	581.1	583.6	591.2	598.9	606.5	614.2	621.7	629.4
120°	531.6	531.4	531.3	531.1	530.9	533.3	535.8	538.2	540.7	543.0	545.4
122.5°	484.4	482.7	481.2	479.4	477.8	476.9	476.2	475.3	474.7	473.9	473.2
125°	439.7	438.0	436.3	434.5	432.7	430.6	428.6	426.6	424.5	422.5	420.3
127.5°	401.5	399.9	398.6	396.8	395.3	393.0	390.6	388.3	385.9	383.6	381.2
130°	369.7	368.6	367.6	366.3	365.3	363.1	361.2	359.1	357.1	355.1	353.0
132.5°	346.6	345.9	345.2	344.3	343.5	341.5	339.9	338.0	336.2	334.4	332.7
135°	328.5	328.1	327.8	327.3	326.8	325.4	324.2	322.8	321.5	320.1	318.7
137.5°	313.7	313.6	313.6	313.4	313.3	312.1	311.0	310.0	308.9	307.7	306.6
140°	304.0	303.9	304.0	303.8	303.7	302.5	301.3	300.1	299.0	297.8	296.5
142.5°	294.0	294.0	294.1	293.9	293.8	292.8	292.1	291.1	290.2	289.3	288.4
145°	286.6	286.8	286.9	286.9	287.1	285.8	284.8	283.6	282.7	281.5	280.5
147.5°	279.4	279.6	279.8	279.9	280.1	279.1	278.3	277.3	276.5	275.6	274.8
150°	274.0	274.0	274.1	274.1	274.0	273.1	272.2	271.2	270.4	269.3	268.5
152.5°	268.8	268.9	269.0	269.0	269.1	268.2	267.2	266.2	265.2	264.1	263.1
155°	264.1	264.2	264.2	264.2	264.2	263.2	262.3	261.4	260.5	259.4	258.5
157.5°	260.1	260.2	260.3	260.4	260.4	259.6	258.8	258.0	257.2	256.4	255.6
160°	257.1	257.3	257.4	257.4	257.6	256.9	256.3	255.6	255.0	254.2	253.4
162.5°	255.3	255.5	255.6	255.6	255.8	255.1	254.5	253.9	253.2	252.4	251.6
165°	252.8	252.8	252.8	252.8	252.8	252.2	251.9	251.4	251.0	250.4	250.0
167.5°	252.8	252.8	252.8	252.8	252.8	252.5	252.2	251.8	251.4	251.1	250.7
170°	252.1	252.1	252.1	252.1	252.1	251.8	251.4	251.1	250.9	250.4	250.0
172.5°	251.6	251.5	251.3	251.2	251.1	250.9	250.6	250.4	250.3	250.0	249.8
175°	251.1	250.9	250.8	250.6	250.4	250.4	250.3	250.3	250.2	250.0	249.9
177.5°	252.8	252.6	252.2	251.8	251.6	251.5	251.5	251.3	251.3	251.2	251.1
180°	250.2	250.2	250.2	250.2	250.2	250.2	250.2	250.2	250.2	250.2	250.2



TEST NUMBER: P1444372
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CANDELA DISTRIBUTION (continued):

	220°	222.5°	225°	227.5°	230°	232.5°	235°	237.5°	240°	242.5°	245°
0°	15963.5	15963.5	15963.5	15963.5	15963.5	15963.5	15963.5	15963.5	15963.5	15963.5	15963.5
2.5°	16105.3	16005.8	15992.6	15999.6	16016.3	16022.4	16040.3	16045.2	16063.3	16067.7	16085.1
5°	16437.5	16306.0	16312.6	16344.3	16392.1	16420.7	16467.7	16492.3	16537.2	16557.6	16598.2
7.5°	16787.9	16684.7	16716.9	16770.2	16835.7	16881.0	16937.5	16974.3	17022.9	17053.2	17092.2
10°	16960.0	16931.7	16967.1	17009.1	17046.4	17075.7	17099.6	17118.8	17131.3	17143.1	17148.3
12.5°	16829.1	16872.9	16878.9	16874.8	16850.1	16831.2	16788.8	16760.0	16708.8	16677.7	16616.7
15°	16343.7	16439.9	16386.7	16305.9	16187.9	16089.4	15950.4	15846.8	15702.1	15603.9	15458.6
17.5°	15491.9	15613.4	15474.5	15287.8	15050.2	14847.0	14594.0	14393.1	14141.5	13958.5	13723.7
20°	14292.7	14406.2	14158.5	13849.0	13481.6	13172.3	12807.6	12516.6	12177.7	11925.7	11621.5
22.5°	12799.7	12880.5	12531.5	12114.3	11646.1	11259.7	10823.7	10474.8	10088.2	9799.9	9475.5
25°	11147.8	11169.6	10751.0	10270.2	9748.5	9314.3	8848.8	8482.1	8087.6	7795.5	7477.2
27.5°	9480.6	9448.6	8996.1	8486.4	7937.5	7486.2	7032.2	6688.6	6343.1	6079.9	5805.7
30°	7907.0	7829.4	7359.6	6835.8	6302.9	5898.5	5521.6	5245.6	4970.7	4762.0	4541.9
32.5°	6464.0	6354.6	5897.3	5406.4	4957.5	4645.3	4365.8	4157.0	3935.1	3758.8	3574.0
35°	5185.8	5069.3	4664.2	4248.0	3908.3	3678.1	3458.4	3287.1	3098.7	2950.0	2789.5
37.5°	4088.9	3993.3	3654.0	3326.6	3069.6	2891.2	2711.3	2571.2	2415.5	2350.1	2178.6
40°	3156.6	3089.9	2824.5	2583.1	2390.1	2306.4	2123.6	1992.9	1876.4	1780.5	1687.6
42.5°	2462.2	2438.6	2180.3	1992.1	1856.2	1750.6	1648.8	1566.2	1485.7	1419.6	1357.1
45°	1806.9	1788.1	1673.5	1564.9	1472.2	1398.5	1329.7	1272.9	1220.2	1176.6	1136.9
47.5°	1407.1	1401.0	1335.0	1267.6	1209.3	1161.9	1117.3	1079.5	1044.6	1015.5	1006.0
50°	1144.4	1143.6	1104.9	1063.3	1021.7	994.4	965.8	943.5	921.1	903.7	885.2
52.5°	972.4	968.1	942.0	916.3	891.7	873.7	855.4	841.2	826.4	815.6	804.1
55°	837.1	841.5	826.4	811.0	795.6	784.4	771.7	762.3	752.1	745.2	738.4
57.5°	743.1	749.0	741.1	732.3	722.9	715.6	706.8	700.3	693.5	689.1	685.2
60°	674.8	681.2	678.0	673.6	667.9	663.4	657.9	654.2	649.8	647.4	645.2
62.5°	616.8	624.8	623.7	621.6	617.9	615.5	612.4	610.7	607.9	606.8	605.8
65°	559.0	568.0	567.8	566.8	564.7	564.0	562.1	561.7	560.3	560.9	560.7
67.5°	513.5	521.2	523.0	524.3	524.2	524.7	524.5	525.3	525.3	526.4	527.1
70°	480.7	486.0	487.3	488.7	489.1	490.1	490.1	490.8	490.6	491.5	491.7
72.5°	447.5	454.7	455.9	457.0	457.0	458.0	457.5	457.3	455.9	455.6	454.6
75°	406.1	415.3	417.3	418.6	418.8	419.7	418.4	417.7	415.3	414.4	412.7
77.5°	363.0	372.5	373.9	374.4	373.6	373.8	371.2	369.5	366.5	365.3	363.6
80°	306.8	320.9	322.1	321.2	318.9	318.5	316.0	314.4	310.8	309.6	308.1
82.5°	233.5	249.9	252.2	253.3	251.5	251.9	249.5	248.5	245.2	244.7	242.5
85°	147.4	163.9	166.6	166.2	164.4	164.0	162.5	163.1	162.8	163.7	164.2
87.5°	67.7	83.6	87.5	86.3	86.1	85.0	82.4	83.3	84.9	85.9	86.0
90°	39.8	46.6	48.4	47.1	44.3	42.7	40.0	38.7	36.3	34.9	32.5
92.5°	52.3	55.3	58.4	55.7	52.9	50.1	47.4	44.5	41.9	39.0	36.3
95°	65.3	69.7	74.2	70.5	66.8	63.2	59.4	55.8	52.1	48.4	44.7
97.5°	73.4	78.6	83.7	80.1	76.4	72.6	68.9	65.3	61.5	57.9	54.2
100°	127.3	139.2	151.5	141.0	130.5	120.0	109.5	99.0	88.5	78.0	67.6
102.5°	288.6	317.8	347.3	320.9	294.3	267.9	241.5	214.9	188.5	161.9	135.5
105°	520.5	564.9	609.5	569.0	528.6	488.3	447.9	407.4	367.0	326.6	286.3
107.5°	701.5	743.0	784.9	748.4	711.8	675.3	638.7	602.3	565.7	529.1	492.7
110°	791.2	823.9	857.1	832.5	808.0	783.5	759.0	734.5	709.9	685.5	661.0



TEST NUMBER: P1444372
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CANDELA DISTRIBUTION (continued):

	220°	222.5°	225°	227.5°	230°	232.5°	235°	237.5°	240°	242.5°	245°
112.5°	790.5	814.2	838.4	823.9	809.6	795.3	781.0	766.6	752.4	738.1	723.9
115°	722.2	736.2	750.7	744.8	739.3	733.5	727.9	722.2	716.6	710.9	705.5
117.5°	637.0	643.5	650.8	649.7	648.7	647.6	646.6	645.6	644.7	643.6	642.7
120°	547.8	549.0	551.0	551.7	552.5	553.2	554.0	554.7	555.6	556.4	557.3
122.5°	472.3	470.4	469.2	469.8	470.6	471.2	471.8	472.6	473.3	474.0	474.8
125°	418.3	414.9	412.4	411.4	410.5	409.5	408.5	407.4	406.6	405.7	404.9
127.5°	378.9	375.0	372.3	370.1	367.9	365.6	363.3	361.0	358.8	356.5	354.4
130°	351.0	347.4	345.0	342.1	339.3	336.4	333.6	330.8	327.8	325.0	322.2
132.5°	330.8	327.3	325.1	322.4	319.8	316.9	314.2	311.5	308.7	305.8	303.2
135°	317.3	314.3	312.6	310.1	307.6	305.1	302.6	300.1	297.7	295.0	292.6
137.5°	305.5	302.6	301.1	299.1	297.2	295.1	293.2	291.2	289.2	287.1	285.1
140°	295.3	292.2	290.6	289.5	288.5	287.3	286.2	285.0	283.9	282.8	281.6
142.5°	287.5	284.5	283.2	282.5	281.8	281.1	280.5	279.8	279.0	278.2	277.4
145°	279.4	276.1	274.5	274.4	274.5	274.4	274.3	274.3	274.2	274.1	274.1
147.5°	273.7	270.4	268.9	269.0	269.2	269.2	269.5	269.5	269.8	269.8	270.0
150°	267.4	263.7	261.9	262.3	262.5	262.9	263.1	263.6	263.9	264.2	264.5
152.5°	262.0	257.5	255.6	256.0	256.4	256.7	257.1	257.5	257.9	258.3	258.7
155°	257.4	252.6	250.5	250.5	250.7	250.9	251.0	251.3	251.5	251.7	252.1
157.5°	254.6	249.5	247.6	247.5	247.5	247.6	247.6	247.8	247.9	248.0	248.2
160°	252.7	247.7	245.8	245.7	245.7	245.7	245.7	245.8	245.9	246.0	246.2
162.5°	250.8	246.0	244.2	244.0	243.9	243.9	244.0	244.0	244.1	244.1	244.3
165°	249.4	245.3	243.6	243.6	243.8	243.8	243.9	244.1	244.2	244.4	244.7
167.5°	250.3	246.5	245.3	245.2	245.0	244.8	244.8	244.6	244.6	244.5	244.5
170°	249.7	246.6	245.6	245.6	245.7	245.7	245.7	245.8	245.8	245.9	246.0
172.5°	249.5	247.3	246.5	246.7	247.0	247.1	247.3	247.5	247.7	247.9	248.2
175°	249.8	248.5	248.2	248.1	248.2	248.3	248.4	248.6	248.7	248.8	249.1
177.5°	250.9	250.5	250.3	250.3	250.3	250.3	250.3	250.3	250.3	250.4	250.4
180°	250.2	250.2	250.2	250.2	250.2	250.2	250.2	250.2	250.2	250.2	250.2



TEST NUMBER: P1444372
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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°	15963.5	15963.5	15963.5	15963.5	15963.5	15963.5	15963.5	15963.5	15963.5	15963.5	15963.5
2.5°	16088.3	16107.1	16105.7	16123.1	16122.3	16138.8	16135.4	16149.8	16146.4	16158.6	16151.5
5°	16616.0	16651.7	16663.5	16695.6	16702.4	16731.1	16731.7	16754.6	16751.9	16769.8	16760.3
7.5°	17115.3	17148.6	17164.4	17189.4	17201.8	17222.6	17230.7	17247.7	17251.8	17261.9	17261.6
10°	17157.3	17157.2	17165.1	17161.6	17168.5	17164.5	17173.1	17170.0	17182.6	17179.3	17188.8
12.5°	16590.5	16534.2	16513.7	16463.1	16452.0	16408.8	16411.8	16384.0	16397.5	16380.3	16409.5
15°	15372.1	15241.7	15177.2	15063.7	15028.0	14938.3	14931.1	14871.6	14887.6	14856.4	14902.0
17.5°	13571.8	13366.3	13253.5	13087.8	13022.1	12895.2	12869.7	12793.0	12804.9	12766.3	12821.4
20°	11425.2	11176.9	11034.7	10843.0	10757.6	10606.3	10566.2	10480.5	10491.2	10452.7	10515.0
22.5°	9254.1	8994.2	8833.7	8632.8	8523.7	8381.5	8338.8	8252.6	8257.6	8221.4	8281.3
25°	7259.0	7009.9	6854.0	6671.6	6576.9	6446.5	6401.6	6324.3	6328.6	6298.9	6352.6
27.5°	5615.4	5411.0	5280.6	5127.6	5042.8	4935.5	4891.8	4826.8	4826.6	4804.8	4849.7
30°	4388.1	4217.5	4100.5	3967.3	3887.5	3790.8	3748.5	3690.3	3687.8	3672.3	3708.0
32.5°	3435.8	3284.1	3177.2	3060.1	2988.5	2905.5	2865.5	2818.6	2814.4	2800.4	2829.7
35°	2670.9	2543.1	2451.3	2352.6	2359.8	2237.5	2257.7	2162.6	2136.9	2131.2	2153.0
37.5°	2064.3	1965.3	1890.8	1816.8	1766.8	1715.0	1687.1	1662.1	1659.3	1656.9	1672.1
40°	1615.8	1546.5	1492.3	1441.6	1407.2	1375.6	1358.1	1344.4	1341.1	1339.2	1348.5
42.5°	1307.8	1260.9	1226.0	1195.1	1174.2	1157.0	1147.4	1139.8	1137.2	1137.2	1142.7
45°	1104.9	1076.5	1054.0	1034.7	1021.4	1027.3	1010.0	1019.0	1007.1	1019.4	1011.2
47.5°	973.0	948.9	934.9	921.3	913.1	906.7	906.9	907.0	909.6	910.0	912.6
50°	871.3	857.2	847.6	838.9	834.6	831.2	832.4	833.3	835.8	836.0	837.9
52.5°	795.9	786.7	780.9	775.5	773.6	771.7	772.5	772.1	773.3	772.7	774.3
55°	734.7	730.3	728.5	726.5	726.8	726.2	726.6	724.7	723.5	721.9	723.4
57.5°	684.3	683.7	685.0	685.8	688.1	688.9	689.4	687.2	685.1	683.2	684.3
60°	645.6	646.6	649.6	652.1	655.4	657.0	657.9	656.6	655.0	653.4	654.4
62.5°	607.3	608.8	612.5	615.3	619.3	621.3	623.7	623.8	624.4	623.8	624.5
65°	563.0	564.8	568.2	570.5	574.2	576.0	578.4	578.8	580.1	579.8	580.9
67.5°	529.2	530.9	533.7	535.9	539.2	541.1	543.1	543.2	543.8	543.6	544.8
70°	493.3	494.1	496.6	498.4	501.8	503.7	506.1	506.8	508.2	508.5	509.6
72.5°	455.0	454.7	456.1	456.9	459.4	460.9	463.9	465.7	468.1	468.8	469.6
75°	413.2	412.9	414.6	415.3	417.4	419.0	422.4	424.6	428.4	430.0	429.5
77.5°	364.9	365.7	369.0	370.8	373.6	375.7	380.0	383.5	390.5	393.6	390.5
80°	310.8	311.7	315.1	316.8	320.6	322.9	327.8	331.9	338.2	339.6	337.8
82.5°	244.4	244.6	247.6	248.9	253.8	257.3	263.6	266.8	270.7	270.1	269.6
85°	166.6	168.8	172.7	176.6	182.4	188.2	194.0	198.9	195.4	200.8	194.7
87.5°	89.0	88.8	94.0	93.2	101.5	106.2	111.4	113.8	116.5	115.9	116.0
90°	31.5	29.9	29.6	27.7	27.8	26.0	26.5	24.7	25.5	23.5	26.5
92.5°	33.5	32.1	30.5	29.2	27.5	26.1	24.5	23.1	21.6	20.1	21.6
95°	41.1	39.7	38.3	36.8	35.4	34.1	32.7	31.3	30.0	28.6	30.3
97.5°	50.6	49.7	48.9	48.1	47.3	46.6	45.8	45.0	44.1	43.3	44.4
100°	57.1	57.1	57.1	57.1	57.0	57.0	57.0	57.0	57.0	57.0	57.9
102.5°	109.0	106.3	103.7	101.1	98.5	95.8	93.1	90.5	87.9	85.3	89.2
105°	245.9	235.6	225.1	214.8	204.4	194.1	183.7	173.4	163.1	152.8	163.5
107.5°	456.3	437.3	418.4	399.7	380.7	361.8	343.0	324.2	305.3	286.5	303.3
110°	636.6	616.5	596.5	576.5	556.5	536.4	516.4	496.4	476.4	456.5	472.5



TEST NUMBER: P1444372
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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°	709.6	696.5	683.6	670.7	657.8	644.9	632.0	619.1	606.3	593.4	601.2
115°	699.8	693.7	687.4	681.3	675.2	669.0	662.8	656.8	650.6	644.5	645.1
117.5°	641.7	639.7	637.5	635.5	633.5	631.4	629.4	627.5	625.4	623.6	619.2
120°	558.2	558.7	559.3	560.0	560.7	561.3	561.9	562.7	563.5	564.3	558.5
122.5°	475.5	477.1	478.5	480.0	481.6	483.3	484.8	486.5	488.3	490.0	484.1
125°	403.9	405.3	406.7	408.2	409.7	411.3	412.9	414.6	416.2	418.0	413.1
127.5°	352.1	352.6	353.0	353.6	354.2	354.7	355.4	356.2	357.0	357.8	354.7
130°	319.3	318.7	318.1	317.5	317.0	316.7	316.3	315.9	315.7	315.5	314.1
132.5°	300.4	299.1	297.8	296.5	295.3	294.1	293.0	292.1	291.1	290.3	289.8
135°	290.1	288.3	286.6	284.7	283.0	281.5	279.9	278.5	277.2	275.8	276.1
137.5°	283.0	281.3	279.5	277.8	276.1	274.6	272.9	271.5	270.2	268.8	269.3
140°	280.5	278.6	276.9	275.2	273.5	272.0	270.5	269.1	267.6	266.4	266.7
142.5°	276.7	275.2	273.5	271.9	270.4	269.0	267.7	266.4	265.1	264.0	264.3
145°	273.9	272.8	271.6	270.4	269.4	268.3	267.2	266.3	265.4	264.7	264.9
147.5°	270.1	269.2	268.2	267.4	266.5	265.9	265.1	264.4	263.7	263.1	263.1
150°	264.8	264.3	263.7	263.1	262.5	262.0	261.6	261.1	260.7	260.4	260.3
152.5°	259.1	258.6	258.1	257.6	257.1	256.7	256.3	255.9	255.6	255.2	255.2
155°	252.4	252.1	251.8	251.6	251.4	251.3	251.1	251.1	250.9	250.8	250.9
157.5°	248.3	248.3	248.2	248.3	248.3	248.2	248.1	248.3	248.2	248.4	248.5
160°	246.4	246.3	246.2	246.0	246.0	245.9	245.8	245.7	245.7	245.7	245.9
162.5°	244.4	244.6	244.6	244.7	244.9	245.0	245.2	245.5	245.6	245.8	246.0
165°	244.9	244.8	244.8	244.6	244.7	244.7	244.7	244.8	244.8	244.9	245.2
167.5°	244.4	244.6	244.6	244.8	244.9	245.2	245.4	245.7	245.9	246.2	246.4
170°	246.0	246.0	246.0	246.0	246.0	246.1	246.2	246.2	246.3	246.4	246.6
172.5°	248.4	248.4	248.3	248.4	248.3	248.4	248.4	248.4	248.4	248.5	248.6
175°	249.0	249.3	249.4	249.6	249.7	249.8	249.9	250.1	250.2	250.3	250.3
177.5°	250.4	250.4	250.4	250.4	250.4	250.5	250.5	250.5	250.5	250.4	250.5
180°	250.2	250.2	250.2	250.2	250.2	250.2	250.2	250.2	250.2	250.2	250.2



TEST NUMBER: P1444372
 CATALOG NUMBER: EHBR1-18-UNV-TA-L840-UPL18

CANDELA DISTRIBUTION (continued):

	275°	277.5°	280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°
0°	15963.5	15963.5	15963.5	15963.5	15963.5	15963.5	15963.5	15963.5	15963.5	15963.5	15963.5
2.5°	16163.4	16155.3	16163.6	16155.2	16163.6	16153.5	16160.3	16149.4	16152.2	16140.9	16143.8
5°	16774.5	16761.6	16768.5	16751.7	16753.5	16731.1	16730.7	16704.7	16697.8	16668.2	16655.2
7.5°	17268.7	17264.5	17266.9	17256.1	17254.9	17239.6	17232.3	17210.8	17197.3	17170.0	17151.4
10°	17190.5	17203.1	17206.4	17219.2	17221.8	17234.6	17237.3	17250.0	17252.6	17262.1	17262.2
12.5°	16408.1	16450.8	16461.1	16513.9	16536.2	16596.6	16629.0	16695.6	16735.3	16801.7	16842.5
15°	14900.7	14974.8	15004.2	15107.5	15164.6	15285.0	15360.6	15498.9	15596.6	15743.5	15848.3
17.5°	12826.2	12929.6	12976.2	13116.2	13207.5	13385.3	13513.4	13724.3	13885.8	14120.1	14306.0
20°	10525.7	10640.6	10704.0	10863.6	10971.4	11179.0	11339.0	11598.3	11814.3	12111.3	12365.3
22.5°	8300.0	8409.4	8479.8	8642.2	8763.5	8980.1	9158.9	9432.5	9674.7	10009.4	10313.8
25°	6372.8	6473.1	6536.7	6683.6	6797.5	6996.6	7167.3	7430.4	7667.4	8003.1	8315.4
27.5°	4872.0	4955.9	5017.3	5142.5	5243.0	5411.8	5558.5	5775.9	5980.0	6270.5	6548.5
30°	3729.9	3804.3	3864.0	3973.0	4066.2	4212.6	4341.5	4524.2	4693.2	4924.2	5145.4
32.5°	2850.3	2914.4	2967.5	3063.0	3147.5	3279.2	3395.5	3555.5	3700.6	3896.6	4078.6
35°	2173.2	2299.3	2290.3	2422.1	2443.3	2537.8	2641.5	2781.5	2910.0	3076.5	3231.4
37.5°	1686.7	1722.3	1760.2	1818.4	1879.6	1965.6	2053.2	2224.2	2287.0	2412.9	2541.2
40°	1360.2	1384.1	1409.3	1448.6	1491.4	1552.0	1615.8	1697.4	1781.0	1883.2	1987.4
42.5°	1150.0	1163.5	1179.4	1202.6	1229.0	1267.4	1310.1	1365.4	1423.6	1495.4	1568.8
45°	1027.5	1021.0	1025.7	1038.2	1054.0	1077.4	1104.4	1138.6	1176.5	1223.0	1272.6
47.5°	913.1	915.8	917.2	923.9	932.4	948.2	964.5	987.7	1032.6	1046.3	1073.4
50°	837.8	839.0	838.6	842.0	846.3	856.5	867.1	882.9	898.5	919.4	939.3
52.5°	774.5	776.3	776.0	778.2	780.6	787.0	793.7	804.9	815.2	828.4	839.8
55°	724.6	727.0	727.9	729.8	730.9	734.4	737.0	742.3	746.7	754.2	761.1
57.5°	686.1	689.4	691.1	691.7	690.4	690.2	689.2	690.4	691.3	695.3	699.1
60°	656.0	658.6	659.0	658.6	656.2	654.3	651.5	650.6	650.1	652.1	654.2
62.5°	624.3	625.3	624.6	623.8	620.9	619.2	616.3	615.2	614.2	615.6	616.7
65°	580.5	581.3	580.5	580.1	577.5	576.1	573.6	572.8	571.4	571.7	571.5
67.5°	545.0	545.8	545.2	544.5	542.7	541.8	540.0	538.8	537.1	536.5	535.3
70°	509.5	510.2	509.1	508.5	506.5	505.7	504.0	503.7	502.3	502.0	500.7
72.5°	468.8	468.8	467.4	467.0	465.5	465.5	464.7	465.4	465.4	466.1	465.8
75°	427.0	426.4	424.7	424.4	423.3	423.8	423.0	424.0	424.2	425.7	425.9
77.5°	385.2	383.1	379.7	378.1	375.9	375.5	374.2	375.1	374.8	376.7	377.4
80°	332.5	329.8	325.5	323.5	320.8	320.4	319.1	320.4	319.8	321.9	323.3
82.5°	265.5	263.1	258.7	257.0	254.0	254.3	253.0	254.3	254.1	257.1	258.9
85°	196.4	194.8	190.2	186.2	181.6	178.9	176.3	175.9	175.1	176.3	177.4
87.5°	113.4	112.0	108.4	106.0	98.1	98.4	95.2	95.0	94.3	93.6	95.2
90°	26.6	29.3	29.5	32.0	32.4	35.1	35.8	38.4	38.8	41.7	42.4
92.5°	23.1	24.5	26.0	27.5	29.1	30.5	32.0	33.5	36.7	39.9	43.2
95°	32.0	33.7	35.4	37.2	38.9	40.7	42.4	44.1	48.8	53.5	58.2
97.5°	45.7	46.7	47.8	49.0	50.1	51.3	52.5	53.6	58.7	63.8	68.8
100°	58.8	59.7	60.6	61.6	62.6	63.5	64.4	65.3	75.2	85.0	94.6
102.5°	93.0	97.0	100.9	104.7	108.7	112.6	116.4	120.4	142.9	165.3	187.7
105°	174.2	184.8	195.5	206.1	216.8	227.5	238.3	249.0	284.8	320.8	356.7
107.5°	320.3	337.1	354.1	371.0	388.0	404.8	421.8	438.7	473.6	508.7	543.6
110°	488.7	504.7	520.8	537.0	553.1	569.2	585.4	601.6	622.6	643.5	664.6



TEST NUMBER: P1444372
 CATALOG NUMBER: EHBR1-18-UNV-TA-L840-UPL18

CANDELA DISTRIBUTION (continued):

	275°	277.5°	280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°
112.5°	609.0	616.8	624.8	632.5	640.5	648.4	656.4	664.2	674.7	685.2	695.7
115°	645.6	646.1	646.6	647.1	647.6	648.2	648.8	649.5	652.8	656.2	659.4
117.5°	614.9	610.5	606.3	602.0	597.7	593.6	589.4	585.3	584.6	583.9	583.4
120°	552.8	547.1	541.3	535.5	529.9	524.2	518.6	513.1	510.3	507.3	504.5
122.5°	478.5	472.7	467.0	461.2	455.7	450.0	444.6	439.1	437.1	435.1	433.1
125°	408.2	403.5	398.8	394.1	389.6	384.9	380.4	375.9	375.8	375.5	375.7
127.5°	351.8	348.9	346.0	343.3	340.5	337.8	335.2	332.5	333.8	335.1	336.2
130°	312.8	311.7	310.5	309.2	308.2	307.2	306.1	305.1	307.4	309.5	311.8
132.5°	289.7	289.5	289.4	289.3	289.3	289.3	289.5	289.4	291.9	294.5	296.9
135°	276.4	276.7	277.2	277.8	278.4	278.9	279.6	280.2	282.6	284.9	287.5
137.5°	269.9	270.5	271.2	271.9	272.8	273.5	274.5	275.4	277.3	279.1	281.0
140°	267.2	267.6	268.2	268.8	269.4	270.1	270.9	271.5	273.1	274.6	276.2
142.5°	264.9	265.2	265.7	266.4	267.0	267.6	268.3	268.9	270.0	271.1	272.3
145°	265.2	265.5	265.9	266.4	266.8	267.3	267.8	268.2	268.9	269.6	270.4
147.5°	263.3	263.6	263.9	264.2	264.6	264.9	265.1	265.4	265.9	266.3	266.9
150°	260.4	260.5	260.7	260.6	260.9	261.1	261.3	261.5	261.9	262.2	262.6
152.5°	255.4	255.4	255.5	255.5	255.7	255.8	255.9	256.1	256.5	256.8	257.2
155°	251.1	251.3	251.5	251.7	252.0	252.1	252.5	252.7	253.0	253.2	253.5
157.5°	248.7	248.8	249.1	249.3	249.5	249.7	250.0	250.1	250.4	250.6	250.8
160°	246.2	246.6	246.8	247.3	247.6	247.9	248.2	248.6	248.8	249.0	249.2
162.5°	246.2	246.4	246.7	246.9	247.1	247.3	247.5	247.7	248.1	248.3	248.7
165°	245.5	245.9	246.3	246.5	246.9	247.4	247.6	248.0	248.1	248.4	248.6
167.5°	246.8	247.0	247.4	247.8	248.1	248.4	248.7	249.0	249.2	249.3	249.6
170°	246.9	247.2	247.4	247.8	248.1	248.3	248.6	248.9	249.2	249.4	249.7
172.5°	248.8	249.0	249.2	249.5	249.7	250.0	250.2	250.4	250.7	250.9	251.1
175°	250.3	250.3	250.4	250.4	250.5	250.5	250.6	250.7	250.7	250.8	250.8
177.5°	250.6	250.8	250.9	251.0	251.1	251.3	251.4	251.5	251.5	251.5	251.5
180°	250.2	250.2	250.2	250.2	250.2	250.2	250.2	250.2	250.2	250.2	250.2



TEST NUMBER: P1444372
 CATALOG NUMBER: EHBR1-18-UNV-TA-L840-UPL18

CANDELA DISTRIBUTION (continued):

	302.5°	305°	307.5°	310°	312.5°	315°	317.5°	320°	322.5°	325°	327.5°
0°	15963.5	15963.5	15963.5	15963.5	15963.5	15963.5	15963.5	15963.5	15963.5	15963.5	15963.5
2.5°	16132.5	16133.2	16120.2	16119.5	16107.3	16105.8	16093.9	16090.2	16080.6	16077.1	16067.3
5°	16622.0	16606.1	16569.5	16547.9	16511.8	16487.8	16448.6	16423.1	16385.3	16356.7	16318.7
7.5°	17117.0	17092.4	17051.2	17017.9	16967.7	16927.6	16868.9	16820.6	16757.1	16702.0	16635.1
10°	17262.2	17258.3	17247.8	17232.6	17209.3	17183.0	17143.0	17101.2	17045.5	16984.9	16910.6
12.5°	16904.9	16943.5	16996.1	17027.3	17065.2	17081.9	17097.4	17093.5	17083.3	17052.6	17009.6
15°	16000.0	16108.4	16252.0	16363.2	16491.1	16584.1	16686.8	16750.9	16814.7	16844.1	16862.2
17.5°	14560.6	14765.8	15023.1	15236.4	15482.5	15680.2	15896.8	16060.0	16227.6	16347.8	16456.5
20°	12711.5	13008.8	13372.9	13694.5	14068.3	14393.2	14749.3	15041.6	15343.1	15578.8	15801.8
22.5°	10706.0	11059.1	11499.2	11906.8	12388.8	12822.0	13310.7	13736.1	14180.3	14551.3	14910.1
25°	8733.8	9121.2	9602.2	10057.1	10603.0	11106.9	11686.4	12216.7	12790.7	13289.0	13781.4
27.5°	6932.9	7313.2	7804.4	8288.6	8865.9	9402.8	10023.8	10607.9	11261.5	11864.2	12480.8
30°	5452.8	5775.3	6215.8	6684.7	7254.1	7800.5	8428.2	9028.9	9708.9	10367.1	11061.6
32.5°	4320.1	4565.8	4912.1	5308.7	5833.9	6354.0	6951.8	7531.7	8201.4	8866.1	9588.4
35°	3431.0	3622.6	3886.7	4196.0	4640.9	5089.2	5618.0	6145.3	6770.1	7400.9	8103.0
37.5°	2705.5	2861.0	3067.8	3300.2	3657.0	4025.0	4458.5	4895.7	5438.5	5997.7	6634.1
40°	2112.7	2238.6	2399.6	2573.0	2842.4	3125.9	3461.2	3800.2	4236.3	4693.4	5220.0
42.5°	1659.7	1752.5	1866.2	1993.0	2244.3	2394.9	2622.2	2867.5	3188.0	3519.8	3915.7
45°	1332.9	1396.3	1475.1	1560.0	1676.8	1804.4	1960.1	2123.4	2428.0	2577.4	2818.1
47.5°	1113.1	1155.6	1205.8	1259.3	1328.1	1402.4	1494.7	1589.2	1711.3	1837.8	1986.2
50°	965.1	1008.3	1025.5	1053.3	1093.0	1135.5	1187.6	1239.7	1305.1	1371.5	1447.9
52.5°	855.2	869.3	888.0	905.7	930.3	978.6	994.3	1021.4	1058.1	1094.1	1134.2
55°	771.3	780.5	792.7	803.3	818.2	832.5	853.1	871.2	895.7	917.3	943.9
57.5°	706.0	711.8	720.3	727.3	737.0	744.9	757.1	766.8	781.0	793.2	809.3
60°	658.6	662.4	668.2	672.7	678.9	683.0	689.0	693.6	701.1	707.3	716.3
62.5°	619.8	621.8	625.5	628.2	632.1	634.3	637.4	639.4	643.5	646.7	651.7
65°	573.3	573.7	576.2	577.3	580.5	581.6	584.2	585.1	588.4	590.8	595.2
67.5°	535.2	534.2	534.2	533.3	533.7	532.9	533.1	532.1	533.5	534.2	537.6
70°	500.4	499.0	498.4	496.8	496.3	494.7	494.2	492.8	492.6	492.1	493.3
72.5°	466.5	466.1	466.2	465.0	464.9	463.8	463.9	463.2	463.9	464.3	465.9
75°	427.5	427.6	428.4	427.4	427.7	426.7	427.1	426.2	426.7	426.5	428.0
77.5°	380.1	381.2	383.2	382.8	383.5	382.4	382.9	381.7	382.0	381.2	381.8
80°	326.7	329.0	331.9	331.8	332.9	332.2	333.2	332.1	332.5	331.1	330.8
82.5°	263.3	265.4	268.3	268.4	271.0	271.5	274.3	274.2	276.1	275.0	274.1
85°	180.0	181.4	184.0	185.5	188.1	189.7	192.5	193.6	191.6	195.3	192.4
87.5°	94.0	97.5	95.6	100.1	99.1	103.6	102.6	107.0	106.0	109.8	109.3
90°	45.8	46.9	50.4	51.6	55.8	57.3	58.4	56.5	57.5	55.7	56.5
92.5°	46.3	49.5	52.8	56.0	59.2	62.6	59.4	56.5	53.5	50.7	47.5
95°	63.0	67.6	72.3	77.1	81.7	86.5	81.4	76.5	71.4	66.4	61.2
97.5°	73.9	79.0	84.0	89.1	94.1	99.2	93.2	87.3	81.2	75.4	69.4
100°	104.4	114.2	124.0	133.7	143.6	153.4	142.4	131.2	120.1	108.9	97.8
102.5°	210.2	232.7	255.2	277.6	300.0	322.5	298.8	275.3	251.5	227.9	204.3
105°	392.6	428.6	464.4	500.4	536.3	572.3	534.1	495.6	457.4	419.1	380.7
107.5°	578.7	613.8	648.9	683.8	718.8	753.9	715.1	676.2	637.5	598.5	559.7
110°	685.7	706.7	727.8	748.9	770.0	791.1	762.7	734.4	706.0	677.5	649.2



TEST NUMBER: P1444372
 CATALOG NUMBER: EHBR1-18-UNV-TA-L840-UPL18

CANDELA DISTRIBUTION (continued):

	302.5°	305°	307.5°	310°	312.5°	315°	317.5°	320°	322.5°	325°	327.5°
112.5°	706.2	716.8	727.3	737.9	748.5	759.1	738.7	718.6	698.2	677.9	657.7
115°	662.8	666.1	669.6	672.9	676.3	679.7	666.0	652.3	638.7	625.1	611.3
117.5°	582.8	582.2	581.5	581.1	580.4	579.9	572.2	564.6	556.9	549.2	541.5
120°	501.7	499.0	496.1	493.3	490.5	487.5	484.4	481.1	477.9	474.6	471.2
122.5°	431.1	429.3	427.3	425.4	423.3	421.3	420.0	418.8	417.5	416.2	415.0
125°	375.5	375.3	375.2	375.2	375.0	374.9	374.3	373.7	372.9	372.3	371.6
127.5°	337.4	338.7	339.9	341.0	342.2	343.4	343.2	343.1	342.9	342.7	342.6
130°	313.8	316.0	318.1	320.2	322.2	324.4	324.0	323.6	323.3	322.9	322.5
132.5°	299.5	302.0	304.4	306.9	309.4	311.7	311.3	310.9	310.3	309.9	309.3
135°	289.8	292.1	294.3	296.8	299.1	301.3	300.7	300.2	299.5	299.0	298.4
137.5°	282.9	284.7	286.6	288.5	290.2	292.0	291.4	290.9	290.1	289.6	289.0
140°	277.6	279.2	280.5	282.0	283.4	284.8	284.1	283.3	282.6	281.8	281.0
142.5°	273.3	274.4	275.5	276.6	277.6	278.7	277.5	276.6	275.6	274.4	273.4
145°	271.1	271.8	272.5	273.2	273.7	274.4	273.2	272.0	270.7	269.6	268.4
147.5°	267.3	267.7	268.0	268.6	268.8	269.2	268.0	266.9	265.8	264.6	263.3
150°	262.9	263.6	263.8	264.2	264.5	264.8	263.6	262.3	261.1	259.8	258.7
152.5°	257.5	258.0	258.2	258.5	258.8	259.1	257.8	256.9	255.6	254.5	253.3
155°	253.6	253.9	254.0	254.3	254.3	254.5	253.5	252.7	251.5	250.6	249.6
157.5°	251.0	251.2	251.4	251.5	251.7	251.8	251.1	250.4	249.6	248.9	248.1
160°	249.4	249.5	249.7	249.8	250.0	250.1	249.4	248.9	248.3	247.6	247.0
162.5°	249.0	249.4	249.6	249.8	250.1	250.3	249.6	248.9	248.2	247.4	246.7
165°	248.7	248.9	249.1	249.3	249.3	249.5	248.9	248.5	248.0	247.5	246.9
167.5°	249.7	249.9	250.0	250.2	250.3	250.4	249.8	249.5	248.9	248.4	247.9
170°	249.9	250.2	250.5	250.7	250.9	251.0	250.6	250.3	249.8	249.5	249.0
172.5°	251.3	251.6	251.7	251.9	252.0	252.4	251.8	251.4	251.0	250.6	250.1
175°	250.8	250.9	251.0	251.0	251.0	251.1	250.8	250.4	250.1	249.7	249.4
177.5°	251.5	251.5	251.5	251.5	251.5	251.5	251.3	251.0	250.8	250.6	250.2
180°	250.2	250.2	250.2	250.2	250.2	250.2	250.2	250.2	250.2	250.2	250.2



TEST NUMBER: P1444372
 CATALOG NUMBER: EHBR1-18-UNV-TA-L840-UPL18

CANDELA DISTRIBUTION (continued):

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
0°	15963.5	15963.5	15963.5	15963.5	15963.5	15963.5	15963.5	15963.5	15963.5	15963.5	15963.5
2.5°	16063.8	16056.8	16052.4	16046.6	16043.1	16038.7	16035.4	16032.6	16030.4	16028.3	16026.8
5°	16289.7	16253.8	16225.9	16195.8	16170.9	16146.2	16127.1	16111.4	16100.5	16092.3	16087.5
7.5°	16577.3	16511.6	16453.1	16391.6	16336.4	16282.1	16235.4	16195.2	16164.9	16145.3	16133.4
10°	16834.2	16746.2	16659.1	16567.5	16480.7	16396.5	16318.7	16250.2	16196.2	16160.1	16139.2
12.5°	16949.3	16874.3	16785.4	16685.9	16579.5	16471.8	16366.9	16272.2	16192.8	16139.5	16108.7
15°	16847.9	16817.1	16756.8	16679.6	16578.6	16467.3	16344.0	16228.2	16121.6	16052.5	16012.4
17.5°	16518.0	16560.9	16556.4	16526.8	16454.3	16360.5	16234.9	16104.9	15971.6	15879.1	15828.7
20°	15961.4	16096.4	16164.9	16200.1	16171.5	16110.8	15997.1	15865.0	15709.6	15589.0	15515.5
22.5°	15179.2	15417.6	15566.1	15674.8	15697.9	15677.1	15576.7	15451.2	15278.0	15133.1	15024.4
25°	14172.2	14521.5	14756.2	14940.3	15011.8	15030.3	14944.8	14819.9	14626.9	14458.1	14308.7
27.5°	12986.2	13440.0	13753.5	14000.8	14112.4	14160.8	14082.1	13954.7	13726.3	13524.7	13329.8
30°	11651.0	12189.3	12566.8	12863.2	12999.4	13063.3	12979.8	12837.5	12571.8	12329.2	12083.6
32.5°	10221.9	10811.0	11222.2	11544.3	11679.1	11739.2	11629.9	11470.2	11163.1	10877.3	10590.9
35°	8725.5	9320.2	9734.9	10048.4	10161.3	10197.7	10057.9	9873.3	9532.9	9219.3	8906.9
37.5°	7198.8	7752.0	8129.0	8410.3	8480.2	8486.5	8318.1	8114.2	7756.5	7447.2	7136.3
40°	5685.2	6151.8	6456.1	6681.3	6705.6	6683.9	6500.9	6295.7	5961.0	5683.9	5411.0
42.5°	4259.5	4611.7	4828.9	4983.1	4974.0	4931.2	4763.4	4586.9	4310.9	4099.9	3885.1
45°	3038.1	3270.4	3397.3	3487.6	3458.5	3417.8	3287.2	3163.5	2975.9	2839.6	2695.2
47.5°	2110.6	2387.9	2339.7	2516.1	2364.1	2464.6	2255.3	2140.0	2040.5	1968.1	1886.4
50°	1511.0	1574.5	1605.2	1626.2	1615.1	1599.7	1562.0	1528.4	1482.9	1449.8	1411.2
52.5°	1166.9	1198.7	1216.0	1228.7	1226.2	1220.6	1204.2	1189.2	1167.9	1153.9	1136.9
55°	988.4	988.9	1020.9	1007.2	1027.5	1003.7	1013.0	986.7	990.9	968.3	953.2
57.5°	821.3	834.3	840.2	845.9	844.3	843.3	837.0	833.7	826.6	824.5	819.3
60°	722.5	729.3	730.7	733.3	731.1	730.3	725.4	723.6	718.8	717.9	714.5
62.5°	654.7	658.2	658.2	658.2	655.3	652.6	647.1	644.2	640.1	639.3	637.3
65°	598.1	601.8	602.4	603.1	601.1	598.9	594.1	590.9	586.7	585.1	582.9
67.5°	539.7	543.5	544.9	546.9	545.7	545.3	541.9	540.7	537.9	537.3	535.2
70°	493.9	495.5	495.4	495.3	492.7	490.4	486.5	484.7	481.8	481.2	479.4
72.5°	466.7	467.8	467.1	466.1	462.6	459.2	454.8	451.4	447.6	445.3	442.5
75°	428.2	429.7	428.7	428.1	425.1	422.9	419.2	417.4	414.7	414.0	412.2
77.5°	381.1	381.8	380.2	380.1	377.8	376.4	373.6	373.1	371.2	371.2	369.5
80°	328.6	328.1	325.7	325.2	322.9	322.3	320.2	320.4	318.7	319.4	318.1
82.5°	270.4	268.9	265.7	264.7	262.0	261.8	260.4	261.5	260.6	262.0	261.2
85°	193.7	194.1	192.7	192.7	192.0	192.2	192.1	193.0	193.1	194.4	194.3
87.5°	108.1	109.6	109.3	110.7	110.6	112.2	112.8	115.1	115.4	117.6	117.6
90°	54.8	55.9	54.1	55.4	54.6	56.5	56.1	58.0	57.3	58.8	57.7
92.5°	44.6	41.6	38.7	35.6	34.1	32.5	31.3	29.6	28.2	26.5	25.1
95°	56.2	51.2	46.1	41.1	39.4	37.5	35.8	34.1	32.3	30.6	28.9
97.5°	63.5	57.4	51.5	45.5	44.0	42.5	41.0	39.5	37.9	36.4	35.0
100°	86.6	75.5	64.4	53.2	51.9	50.7	49.3	48.1	46.8	45.6	44.3
102.5°	180.7	157.0	133.4	109.7	105.2	100.7	96.3	91.7	87.2	82.7	78.3
105°	342.5	304.1	265.7	227.3	215.1	202.9	190.8	178.6	166.4	154.2	142.1
107.5°	520.7	481.8	443.0	404.0	381.6	359.1	336.5	313.9	291.5	268.9	246.3
110°	620.8	592.4	563.9	535.5	517.4	499.3	481.1	462.9	445.0	426.7	408.5



TEST NUMBER: P1444372
 CATALOG NUMBER: EHBR1-18-UNV-TA-L840-UPL18

CANDELA DISTRIBUTION (continued):

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
112.5°	637.4	617.0	596.7	576.2	568.1	559.8	551.6	543.3	535.2	526.8	518.6
115°	597.5	583.9	570.1	556.2	553.3	550.5	547.6	544.6	541.7	538.7	535.7
117.5°	533.9	526.1	518.3	510.6	511.0	511.6	512.0	512.5	512.8	513.2	513.6
120°	467.9	464.6	461.3	457.9	460.5	462.9	465.4	467.8	470.2	472.5	474.8
122.5°	413.7	412.3	411.1	409.7	412.7	415.7	418.6	421.6	424.5	427.2	429.9
125°	371.0	370.2	369.6	368.8	371.9	374.9	377.9	380.8	383.7	386.4	389.3
127.5°	342.4	342.1	342.0	341.6	343.9	345.9	348.1	350.0	352.1	354.0	355.9
130°	322.1	321.6	321.3	320.9	322.8	324.7	326.7	328.4	330.2	331.9	333.6
132.5°	308.9	308.2	307.8	307.3	308.8	310.2	311.5	312.6	314.0	315.0	316.0
135°	297.9	297.0	296.5	295.8	297.3	298.5	299.7	300.8	302.0	302.9	303.9
137.5°	288.5	287.7	287.1	286.5	287.7	288.8	289.9	290.8	291.8	292.7	293.5
140°	280.2	279.4	278.7	277.9	278.9	279.9	280.9	281.8	282.6	283.3	284.1
142.5°	272.3	271.2	270.4	269.2	270.0	270.6	271.3	271.9	272.6	273.1	273.6
145°	267.2	265.9	264.7	263.3	264.0	264.6	265.1	265.7	266.0	266.4	266.8
147.5°	262.2	260.9	259.8	258.6	259.1	259.4	259.8	260.1	260.5	260.7	261.0
150°	257.4	256.1	254.9	253.6	253.9	254.2	254.6	254.9	255.1	255.3	255.6
152.5°	252.1	250.8	249.7	248.4	248.6	248.9	249.1	249.3	249.6	249.7	249.9
155°	248.7	247.6	246.6	245.5	245.8	245.9	246.1	246.3	246.4	246.5	246.6
157.5°	247.3	246.4	245.7	244.8	244.8	244.9	244.9	244.8	244.9	244.9	244.8
160°	246.3	245.6	244.9	244.1	244.1	244.1	244.2	244.1	244.1	243.9	244.0
162.5°	245.9	245.1	244.3	243.4	243.4	243.4	243.4	243.3	243.4	243.2	243.1
165°	246.3	245.8	245.2	244.5	244.4	244.3	244.2	244.0	243.9	243.6	243.5
167.5°	247.3	246.7	246.1	245.4	245.4	245.5	245.5	245.4	245.5	245.3	245.3
170°	248.6	248.0	247.6	247.0	246.9	246.9	246.7	246.6	246.5	246.3	246.2
172.5°	249.6	249.1	248.7	248.0	248.0	248.0	247.9	247.8	247.6	247.5	247.5
175°	248.9	248.6	248.1	247.8	247.7	247.7	247.6	247.6	247.5	247.4	247.3
177.5°	250.0	249.8	249.4	249.2	249.2	249.2	249.1	249.0	249.0	249.0	248.9
180°	250.2	250.2	250.2	250.2	250.2	250.2	250.2	250.2	250.2	250.2	250.2



TEST NUMBER: P1444372
 CATALOG NUMBER: EHBR1-18-UNV-TA-L840-UPL18

CANDELA DISTRIBUTION (continued):

	357.5°	360°
0°	15963.5	15963.5
2.5°	16025.3	16024.5
5°	16085.0	16084.0
7.5°	16130.3	16130.0
10°	16135.6	16138.3
12.5°	16103.4	16105.7
15°	16009.4	16013.7
17.5°	15829.6	15835.3
20°	15520.0	15526.0
22.5°	15018.6	15021.0
25°	14289.5	14279.1
27.5°	13295.5	13277.7
30°	12032.0	12014.8
32.5°	10525.5	10514.8
35°	8829.8	8822.9
37.5°	7044.4	7030.5
40°	5311.2	5270.8
42.5°	3791.0	3720.2
45°	2619.9	2535.9
47.5°	1828.9	1777.1
50°	1386.3	1369.5
52.5°	1129.6	1125.6
55°	953.1	951.4
57.5°	820.5	819.9
60°	716.3	716.1
62.5°	638.6	638.9
65°	583.9	584.0
67.5°	535.7	535.4
70°	480.1	479.7
72.5°	441.7	441.0
75°	412.2	411.7
77.5°	370.0	369.4
80°	319.0	318.1
82.5°	262.3	261.4
85°	195.7	195.7
87.5°	119.8	119.7
90°	59.1	57.7
92.5°	23.7	22.3
95°	27.1	25.4
97.5°	33.5	32.0
100°	43.1	41.8
102.5°	73.8	69.3
105°	129.9	117.6
107.5°	223.8	201.3
110°	390.4	372.2



TEST NUMBER: P1444372
CATALOG NUMBER: EHBR1-18-UNV-TA-L840-UPL18

CANDELA DISTRIBUTION (continued):

	357.5°	360°
112.5°	510.3	502.0
115°	532.7	529.6
117.5°	513.9	514.2
120°	477.0	479.3
122.5°	432.7	435.4
125°	392.0	394.6
127.5°	357.6	359.3
130°	334.9	336.5
132.5°	317.0	317.8
135°	304.6	305.4
137.5°	294.2	294.8
140°	284.6	285.2
142.5°	273.9	274.3
145°	267.1	267.3
147.5°	260.9	261.1
150°	255.6	255.7
152.5°	249.9	250.0
155°	246.6	246.6
157.5°	244.6	244.5
160°	243.8	243.7
162.5°	242.9	242.9
165°	243.2	242.9
167.5°	245.1	245.1
170°	246.0	245.9
172.5°	247.3	247.2
175°	247.2	247.2
177.5°	248.9	248.8
180°	250.2	250.2



TEST NUMBER: P1444372
 CATALOG NUMBER: EHBR1-18-UNV-TA-L840-UPL18

CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	14.24	15.28	14.77	15.78	16.34	12.61	13.65	13.15	14.16	14.72
	3H	15.79	16.71	16.33	17.23	17.83	15.04	15.97	15.59	16.49	17.09
	4H	16.58	17.44	17.15	17.98	18.60	16.16	17.02	16.73	17.56	18.18
	6H	17.34	18.14	17.93	18.69	19.32	17.20	17.99	17.78	18.55	19.17
	8H	17.66	18.41	18.25	18.98	19.62	17.64	18.39	18.23	18.96	19.60
	12H	17.90	18.62	18.50	19.19	19.84	17.99	18.71	18.59	19.27	19.93
4H	2H	14.61	15.48	15.18	16.02	16.63	13.32	14.19	13.90	14.73	15.34
	3H	16.48	17.20	17.06	17.78	18.42	15.95	16.66	16.53	17.25	17.88
	4H	17.49	18.13	18.08	18.72	19.39	17.20	17.85	17.80	18.44	19.11
	6H	18.44	19.00	19.06	19.61	20.30	18.38	18.94	19.01	19.56	20.24
	8H	18.83	19.35	19.45	19.96	20.65	18.88	19.40	19.51	20.02	20.71
	12H	19.14	19.60	19.78	20.24	20.94	19.29	19.75	19.94	20.40	21.09
8H	4H	17.86	18.38	18.49	18.99	19.69	17.62	18.13	18.24	18.75	19.44
	6H	19.02	19.44	19.68	20.10	20.80	18.97	19.39	19.62	20.05	20.75
	8H	19.53	19.90	20.20	20.58	21.29	19.57	19.95	20.24	20.62	21.33
	12H	19.95	20.28	20.62	20.94	21.72	20.09	20.42	20.76	21.08	21.86
12H	4H	17.91	18.36	18.55	19.01	19.70	17.67	18.13	18.31	18.77	19.47
	6H	19.13	19.51	19.81	20.18	20.89	19.08	19.46	19.76	20.13	20.84
	8H	19.72	20.05	20.39	20.70	21.48	19.75	20.08	20.42	20.73	21.51

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

Report Prepared for

Cooper Lighting Solutions

Metalux

Report Number: SP1-2506-472-1

Test Date: 07/30/2025

Luminaire Tested: EHBR-60-L840-N

Data in this report applies to families of products including EHBR-60-L840-N

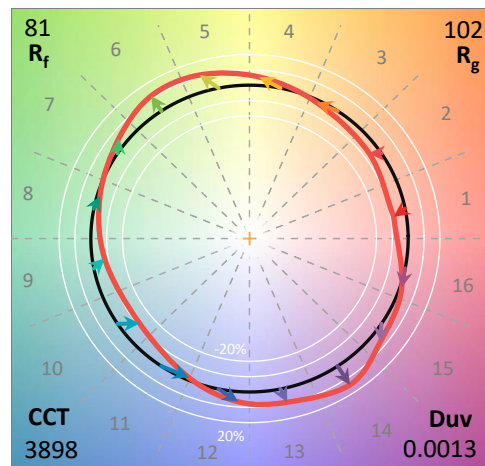
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2506-472-1
 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-L840-N**
 Description: Elevate Round Highbay at, 60000 lumens, 4000K 80CRI LEDs with N lens

Spectral Parameters

CCT (K): 3898
 CIE u': 0.2263
 CIE v': 0.5052
 Duv: 0.0013
 CIE x: 0.3861
 CIE y: 0.3831
 CIE z: 0.2308
 Peak Wavelength (nm): 630
 Dominant Wavelength (nm): 578
 Purity: 30.85729
 Rf: 80.7
 Rg: 102.1

CRI (Ra):	82.1		
R1:	84.4	R9:	38.5
R2:	83.5	R10:	58.9
R3:	80.8	R11:	83.6
R4:	83.9	R12:	54.2
R5:	82.1	R13:	82.8
R6:	77.3	R14:	88.2
R7:	86.4	R15:	81.2
R8:	78.3		



Test Conditions

Stabilization Time: 42M
 Operation Time: 1H 42M
 Sphere Temperature (°C): 25.0

REPORT NUMBER: SP1-2506-472-1

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

REPORT NUMBER: SP1-2506-472-1

CIE 1931 Chromaticity Diagram



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



Point lies inside the ANSI 4000K 4-step quadrangle

REPORT NUMBER: SP1-2506-472-1

Photopic Flux vs. Wavelength



Photopic Lumens: NR

λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	60	NR	620	277	NR	750	6	NR	880	0	NR
365	0	NR	495	87	NR	625	278	NR	755	5	NR	885	0	NR
370	0	NR	500	124	NR	630	1000	NR	760	4	NR	890	0	NR
375	0	NR	505	168	NR	635	623	NR	765	4	NR	895	0	NR
380	1	NR	510	209	NR	640	162	NR	770	3	NR	900	0	NR
385	1	NR	515	246	NR	645	158	NR	775	3	NR	905	0	NR
390	2	NR	520	273	NR	650	134	NR	780	2	NR	910	0	NR
395	4	NR	525	292	NR	655	109	NR	785	2	NR	915	0	NR
400	5	NR	530	305	NR	660	91	NR	790	2	NR	920	0	NR
405	7	NR	535	313	NR	665	75	NR	795	2	NR	925	0	NR
410	11	NR	540	319	NR	670	70	NR	800	1	NR	930	0	NR
415	21	NR	545	323	NR	675	56	NR	805	1	NR	935	0	NR
420	42	NR	550	326	NR	680	47	NR	810	1	NR	940	0	NR
425	76	NR	555	330	NR	685	41	NR	815	1	NR	945	0	NR
430	125	NR	560	333	NR	690	35	NR	820	1	NR	950	0	NR
435	193	NR	565	336	NR	695	30	NR	825	1	NR	955	0	NR
440	302	NR	570	336	NR	700	26	NR	830	1	NR	960	0	NR
445	432	NR	575	335	NR	705	22	NR	835	1	NR	965	0	NR
450	380	NR	580	332	NR	710	19	NR	840	0	NR	970	0	NR
455	213	NR	585	326	NR	715	16	NR	845	0	NR	975	0	NR
460	147	NR	590	319	NR	720	14	NR	850	0	NR	980	0	NR
465	104	NR	595	307	NR	725	12	NR	855	0	NR	985	0	NR
470	65	NR	600	299	NR	730	10	NR	860	0	NR	990	0	NR
475	50	NR	605	291	NR	735	9	NR	865	0	NR	995	0	NR
480	46	NR	610	317	NR	740	8	NR	870	0	NR	1000	0	NR
485	47	NR	615	336	NR	745	7	NR	875	0	NR			

REPORT NUMBER: SP1-2506-472-1

Scotopic Flux vs. Wavelength



Scotopic Lumens: NR

S/P: 1.55

λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	60	NR	620	277	NR	750	6	NR	880	0	NR
365	0	NR	495	87	NR	625	278	NR	755	5	NR	885	0	NR
370	0	NR	500	124	NR	630	1000	NR	760	4	NR	890	0	NR
375	0	NR	505	168	NR	635	623	NR	765	4	NR	895	0	NR
380	1	NR	510	209	NR	640	162	NR	770	3	NR	900	0	NR
385	1	NR	515	246	NR	645	158	NR	775	3	NR	905	0	NR
390	2	NR	520	273	NR	650	134	NR	780	2	NR	910	0	NR
395	4	NR	525	292	NR	655	109	NR	785	2	NR	915	0	NR
400	5	NR	530	305	NR	660	91	NR	790	2	NR	920	0	NR
405	7	NR	535	313	NR	665	75	NR	795	2	NR	925	0	NR
410	11	NR	540	319	NR	670	70	NR	800	1	NR	930	0	NR
415	21	NR	545	323	NR	675	56	NR	805	1	NR	935	0	NR
420	42	NR	550	326	NR	680	47	NR	810	1	NR	940	0	NR
425	76	NR	555	330	NR	685	41	NR	815	1	NR	945	0	NR
430	125	NR	560	333	NR	690	35	NR	820	1	NR	950	0	NR
435	193	NR	565	336	NR	695	30	NR	825	1	NR	955	0	NR
440	302	NR	570	336	NR	700	26	NR	830	1	NR	960	0	NR
445	432	NR	575	335	NR	705	22	NR	835	1	NR	965	0	NR
450	380	NR	580	332	NR	710	19	NR	840	0	NR	970	0	NR
455	213	NR	585	326	NR	715	16	NR	845	0	NR	975	0	NR
460	147	NR	590	319	NR	720	14	NR	850	0	NR	980	0	NR
465	104	NR	595	307	NR	725	12	NR	855	0	NR	985	0	NR
470	65	NR	600	299	NR	730	10	NR	860	0	NR	990	0	NR
475	50	NR	605	291	NR	735	9	NR	865	0	NR	995	0	NR
480	46	NR	610	317	NR	740	8	NR	870	0	NR	1000	0	NR
485	47	NR	615	336	NR	745	7	NR	875	0	NR			

REPORT NUMBER: SP1-2506-472-1

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.99

λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	60	NR	620	277	NR	750	6	NR	880	0	NR
365	0	NR	495	87	NR	625	278	NR	755	5	NR	885	0	NR
370	0	NR	500	124	NR	630	1000	NR	760	4	NR	890	0	NR
375	0	NR	505	168	NR	635	623	NR	765	4	NR	895	0	NR
380	1	NR	510	209	NR	640	162	NR	770	3	NR	900	0	NR
385	1	NR	515	246	NR	645	158	NR	775	3	NR	905	0	NR
390	2	NR	520	273	NR	650	134	NR	780	2	NR	910	0	NR
395	4	NR	525	292	NR	655	109	NR	785	2	NR	915	0	NR
400	5	NR	530	305	NR	660	91	NR	790	2	NR	920	0	NR
405	7	NR	535	313	NR	665	75	NR	795	2	NR	925	0	NR
410	11	NR	540	319	NR	670	70	NR	800	1	NR	930	0	NR
415	21	NR	545	323	NR	675	56	NR	805	1	NR	935	0	NR
420	42	NR	550	326	NR	680	47	NR	810	1	NR	940	0	NR
425	76	NR	555	330	NR	685	41	NR	815	1	NR	945	0	NR
430	125	NR	560	333	NR	690	35	NR	820	1	NR	950	0	NR
435	193	NR	565	336	NR	695	30	NR	825	1	NR	955	0	NR
440	302	NR	570	336	NR	700	26	NR	830	1	NR	960	0	NR
445	432	NR	575	335	NR	705	22	NR	835	1	NR	965	0	NR
450	380	NR	580	332	NR	710	19	NR	840	0	NR	970	0	NR
455	213	NR	585	326	NR	715	16	NR	845	0	NR	975	0	NR
460	147	NR	590	319	NR	720	14	NR	850	0	NR	980	0	NR
465	104	NR	595	307	NR	725	12	NR	855	0	NR	985	0	NR
470	65	NR	600	299	NR	730	10	NR	860	0	NR	990	0	NR
475	50	NR	605	291	NR	735	9	NR	865	0	NR	995	0	NR
480	46	NR	610	317	NR	740	8	NR	870	0	NR	1000	0	NR
485	47	NR	615	336	NR	745	7	NR	875	0	NR			

Summary

$R_f = 80.7$
 $R_g = 102.1$
 CIE $R_a = 82.1$
 $R_9 = 38.5$



Color Vector Graphics



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

CES01 = 85	CES26 = 69	CES51 = 90	CES76 = 58
CES02 = 61	CES27 = 89	CES52 = 90	CES77 = 76
CES03 = 31	CES28 = 83	CES53 = 80	CES78 = 60
CES04 = 69	CES29 = 66	CES54 = 91	CES79 = 85
CES05 = 48	CES30 = 76	CES55 = 89	CES80 = 79
CES06 = 50	CES31 = 69	CES56 = 79	CES81 = 81
CES07 = 41	CES32 = 62	CES57 = 77	CES82 = 91
CES08 = 40	CES33 = 74	CES58 = 79	CES83 = 88
CES09 = 29	CES34 = 72	CES59 = 93	CES84 = 89
CES10 = 74	CES35 = 84	CES60 = 95	CES85 = 84
CES11 = 57	CES36 = 98	CES61 = 92	CES86 = 82
CES12 = 63	CES37 = 77	CES62 = 89	CES87 = 81
CES13 = 43	CES38 = 83	CES63 = 80	CES88 = 86
CES14 = 74	CES39 = 94	CES64 = 80	CES89 = 79
CES15 = 71	CES40 = 88	CES65 = 77	CES90 = 85
CES16 = 47	CES41 = 89	CES66 = 74	CES91 = 83
CES17 = 49	CES42 = 74	CES67 = 72	CES92 = 77
CES18 = 56	CES43 = 73	CES68 = 78	CES93 = 86
CES19 = 71	CES44 = 98	CES69 = 83	CES94 = 69
CES20 = 65	CES45 = 82	CES70 = 69	CES95 = 80
CES21 = 86	CES46 = 82	CES71 = 64	CES96 = 86
CES22 = 78	CES47 = 80	CES72 = 88	CES97 = 83
CES23 = 91	CES48 = 79	CES73 = 60	CES98 = 81
CES24 = 90	CES49 = 80	CES74 = 98	CES99 = 83
CES25 = 71	CES50 = 89	CES75 = 62	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)