

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: P1444477

Luminaire Tested: EHBR1-48-UNV-TA-L830-UPL24

Issue Date: 5/1/2026

Test Information

Test Method: LM-79-2019
Report Number: P1444477
REPORT IS A COMBINATION OF REPORTS P1444333 AND P1431635
Test Lab: INNOVATION CENTER
Issue Date: 5/1/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: EHBR1-48-UNV-TA-L830-UPL24
Description: Elevate Round Highbay at, 48000 lumens, 3000K 80CRI LEDs with TA lens
Light Source: -
Ballast/Driver: -

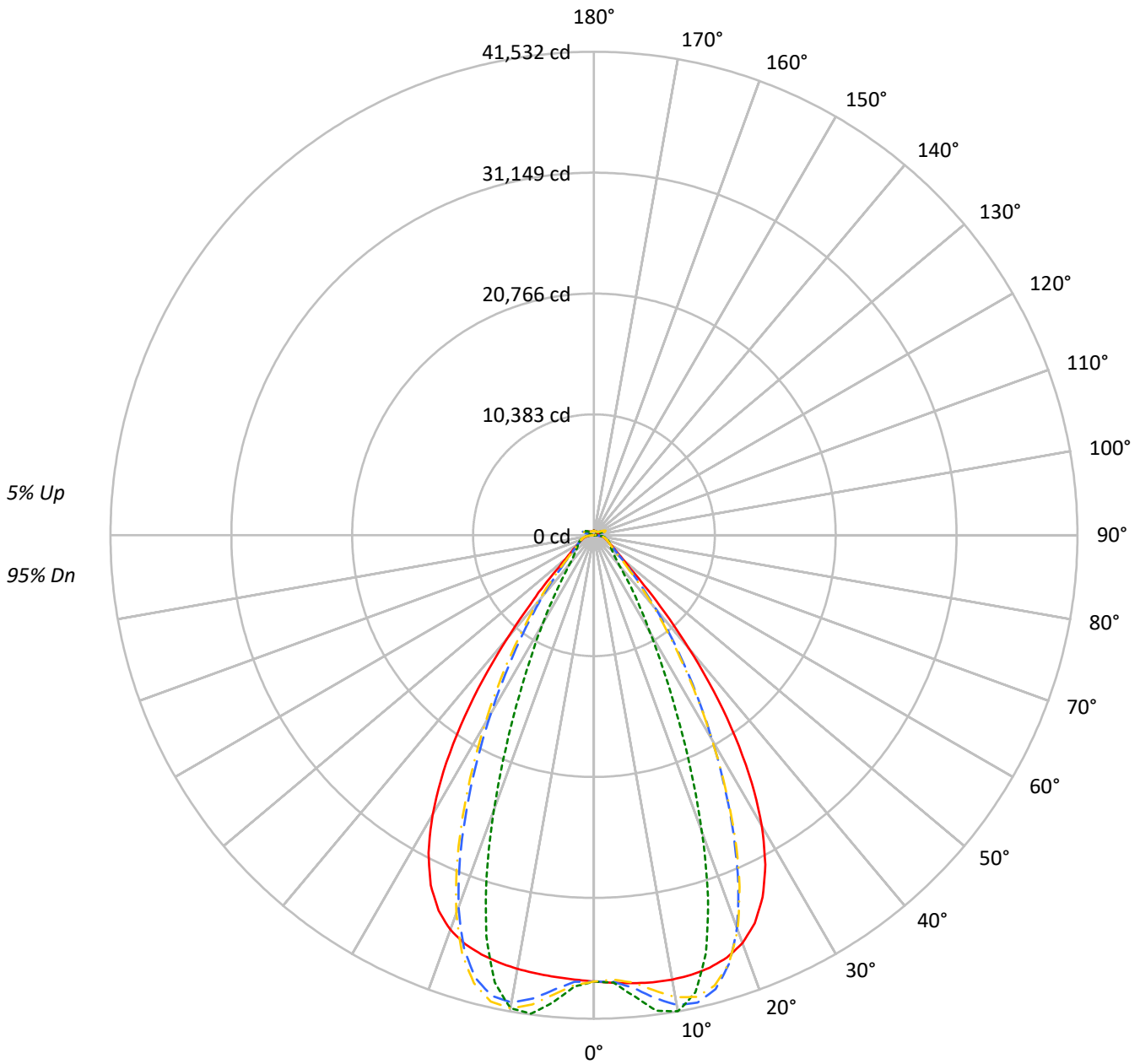
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 46664.0 lumens
Efficiency: N/A
Efficacy: 169.6 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): 275.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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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	118	118	118	118	114	114	114	114	108	108	108	102	102	102	97	97	97	97	97	97	95
1	111	107	104	101	108	104	102	99	99	97	95	95	93	91	90	89	88	88	88	88	85
2	104	98	93	89	101	96	91	87	91	88	85	88	85	82	84	82	80	84	82	80	77
3	98	90	84	79	95	88	83	78	85	80	76	81	78	74	78	75	73	78	75	73	71
4	92	83	76	72	89	81	75	71	78	73	69	76	71	68	73	70	67	73	70	67	65
5	86	77	70	65	84	75	69	65	73	68	63	71	66	62	68	65	61	68	65	61	60
6	82	71	65	60	80	70	64	59	68	63	58	66	61	58	64	60	57	64	60	57	55
7	77	67	60	55	75	66	59	55	64	58	54	62	57	53	60	56	53	60	56	53	51
8	73	62	56	51	71	61	55	51	60	54	50	58	53	50	57	52	49	57	52	49	48
9	69	58	52	48	68	58	52	47	56	51	47	55	50	46	54	49	46	54	49	46	44
10	66	55	49	44	64	54	48	44	53	48	44	52	47	43	51	46	43	51	46	43	42

AVERAGE LUMINANCE (cd/sqm):

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

MAXIMUM LUMINANCE 45°-90°:

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



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3778.2	8.1
10°-20°	10628.5	22.8
20°-30°	12105.0	25.9
30°-40°	8700.5	18.6
40°-50°	4012.7	8.6
50°-60°	1920.2	4.1
60°-70°	1401.1	3.0
70°-80°	1064.4	2.3
80°-90°	488.2	1.0
90°-100°	75.7	0.2
100°-110°	408.6	0.9
110°-120°	754.3	1.6
120°-130°	468.4	1.0
130°-140°	310.1	0.7
140°-150°	237.1	0.5
150°-160°	169.9	0.4
160°-170°	104.7	0.2
170°-180°	36.3	0.1
0°-30°	26511.7	56.8
0°-40°	35212.3	75.5
0°-60°	41145.2	88.2
0°-90°	44098.9	94.5
90°-120°	1238.6	2.7
90°-150°	2254.2	4.8
90°-180°	2565.0	5.5
0°-180°	46664.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	38337	38337	38337	38337	38337	
5°	38626	39753	38086	40273	38626	3691
15°	38458	37175	37287	35678	38458	10836
25°	34292	16672	33159	15127	34292	15545
35°	21189	5778	19970	5118	21189	13004
45°	6090	2489	5989	2448	6090	5180
55°	2285	1750	2200	1734	2285	2109
65°	1402	1442	1349	1392	1402	1401
75°	989	1080	935	1033	989	1028
85°	470	563	380	482	470	442
90°	123	157	32	41	123	77
95°	34	38	34	38	34	33
105°	150	191	102	191	150	197
115°	661	795	692	796	661	611
125°	507	522	572	523	507	462
135°	412	356	442	360	412	321
145°	378	358	400	364	378	238
155°	361	358	383	363	361	168
165°	367	364	380	367	367	104
175°	379	382	386	383	379	36
180°	384	384	384	384	384	



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CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
0°	38337.2	38337.2	38337.2	38337.2	38337.2	38337.2	38337.2	38337.2	38337.2	38337.2	38337.2
2.5°	38483.7	38480.5	38479.9	38477.3	38476.5	38476.5	38475.2	38472.1	38470.2	38465.8	38460.8
5°	38626.4	38624.7	38625.8	38626.0	38623.3	38617.3	38608.0	38596.4	38581.9	38568.3	38556.1
7.5°	38736.8	38739.6	38742.9	38742.2	38733.8	38719.8	38700.6	38689.8	38696.2	38717.1	38764.9
10°	38757.0	38773.5	38779.8	38777.9	38761.1	38749.0	38753.7	38794.4	38875.2	38983.0	39130.5
12.5°	38678.4	38698.6	38697.9	38691.2	38675.0	38691.5	38750.3	38871.3	39044.6	39257.3	39506.7
15°	38457.8	38483.9	38476.5	38467.8	38457.1	38511.2	38628.7	38838.7	39106.4	39406.3	39713.4
17.5°	38029.3	38060.9	38045.6	38035.8	38026.7	38128.2	38330.0	38637.5	38974.7	39314.0	39605.0
20°	37286.4	37307.5	37271.0	37253.8	37268.3	37467.0	37764.4	38157.1	38512.5	38833.3	39032.2
22.5°	36073.6	36099.9	36031.3	36023.3	36108.1	36413.3	36789.6	37228.7	37562.5	37816.8	37893.4
25°	34291.9	34317.8	34236.2	34284.9	34429.0	34844.9	35293.0	35762.6	36047.5	36235.9	36183.8
27.5°	31887.1	31910.7	31833.3	31932.8	32160.6	32707.0	33234.4	33743.8	33997.7	34129.6	33962.4
30°	28854.0	28903.0	28811.7	28950.5	29298.2	30007.6	30611.8	31183.0	31436.2	31536.6	31276.3
32.5°	25251.7	25321.4	25220.7	25427.2	25912.4	26764.6	27451.0	28089.2	28369.3	28483.9	28190.0
35°	21188.7	21288.7	21173.2	21483.2	22081.5	23030.5	23790.6	24503.2	24834.8	24997.4	24701.1
37.5°	16884.2	16979.5	16917.0	17330.6	17987.6	18971.3	19747.1	20515.8	20890.3	21134.3	20900.7
40°	12658.1	12745.3	12792.6	13265.7	13883.5	14810.7	15555.8	16316.4	16735.4	17041.6	16897.6
42.5°	8934.1	9022.1	9182.9	9639.3	10154.6	10922.0	11560.4	12243.3	12643.4	12970.1	12914.6
45°	6090.2	6192.4	6393.8	6767.5	7140.2	7690.8	8159.5	8690.6	9017.5	9316.8	9320.3
47.5°	4267.7	4339.5	4519.5	4774.7	5017.7	5706.9	5735.2	5996.2	6215.9	6439.6	6468.5
50°	3289.1	3332.2	3427.7	3570.0	3707.6	3886.5	4050.3	4239.5	4374.7	4497.3	4526.6
52.5°	2703.4	2730.8	2779.4	2856.4	2936.3	3033.6	3121.3	3225.1	3298.7	3364.4	3378.1
55°	2284.8	2307.6	2379.9	2394.5	2485.8	2503.4	2542.4	2605.6	2648.5	2687.8	2697.5
57.5°	1969.0	1985.4	2000.8	2033.6	2061.8	2102.6	2135.6	2180.9	2207.9	2236.4	2238.8
60°	1719.8	1731.7	1742.7	1765.4	1784.5	1813.0	1835.7	1866.5	1885.9	1907.1	1909.6
62.5°	1534.3	1542.9	1550.2	1565.1	1578.8	1600.7	1618.7	1644.5	1662.5	1679.0	1682.7
65°	1402.5	1408.7	1413.4	1424.8	1436.7	1455.4	1471.7	1492.7	1505.9	1518.6	1521.3
67.5°	1285.7	1291.6	1296.5	1306.9	1315.1	1329.0	1340.0	1355.8	1365.7	1375.7	1376.0
70°	1151.9	1157.4	1161.1	1170.8	1177.4	1189.3	1198.1	1212.4	1222.6	1233.8	1236.6
72.5°	1059.2	1062.5	1067.5	1076.3	1085.6	1098.3	1110.1	1124.9	1137.3	1148.9	1153.8
75°	988.8	992.6	995.8	1003.4	1009.8	1020.5	1029.3	1042.8	1053.7	1066.2	1072.3
77.5°	887.1	891.5	894.3	901.8	907.3	917.7	924.3	936.3	945.1	956.5	962.0
80°	764.1	768.2	770.3	777.4	781.8	791.2	797.6	809.3	816.7	828.1	834.7
82.5°	627.9	631.8	632.9	639.7	642.1	649.9	654.6	666.5	675.6	690.4	700.6
85°	470.1	471.5	473.9	472.1	481.7	482.2	493.0	495.1	509.2	512.9	529.1
87.5°	287.5	291.7	293.8	300.4	303.2	309.8	311.7	318.7	322.5	330.5	334.2
90°	122.9	129.5	131.8	139.7	141.7	148.7	150.4	158.2	160.5	168.5	171.8
92.5°	30.4	32.3	34.0	36.3	38.0	40.7	43.0	45.1	47.0	49.6	53.5
95°	34.4	36.5	38.6	40.7	42.8	45.0	47.0	49.2	51.2	53.4	59.4
97.5°	42.8	44.7	46.5	48.3	50.1	52.0	53.8	55.6	57.4	59.1	66.4
100°	55.2	56.8	58.3	59.9	61.4	62.9	64.4	66.0	67.5	69.1	82.7
102.5°	89.6	95.2	100.6	106.1	111.7	117.0	122.6	128.0	133.5	139.0	167.7
105°	149.8	164.5	179.6	194.4	209.3	224.2	239.0	253.8	268.6	283.4	330.5
107.5°	253.3	280.7	308.4	335.9	363.5	390.9	418.5	446.0	473.4	500.7	548.3
110°	464.1	486.1	508.3	530.4	552.4	574.6	596.7	618.5	640.7	662.6	697.4



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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°	624.8	634.6	644.5	654.6	664.5	674.3	684.3	694.1	704.1	713.8	738.5
115°	660.7	664.0	667.6	670.8	674.3	677.5	680.9	684.2	687.5	690.6	707.4
117.5°	644.3	643.5	642.7	642.0	641.0	640.2	639.3	638.4	637.3	636.4	645.8
120°	604.5	601.1	598.0	594.4	591.3	587.6	584.3	580.9	577.3	573.6	577.7
122.5°	553.5	549.6	545.9	541.7	537.8	533.5	529.6	525.0	521.1	516.9	518.0
125°	507.0	503.0	499.4	495.1	490.8	486.5	482.3	478.0	473.8	469.2	469.7
127.5°	467.2	464.4	461.5	458.3	455.2	451.9	448.7	445.2	442.1	438.5	438.4
130°	442.8	440.3	437.5	434.6	431.8	428.5	425.5	422.3	419.3	415.9	415.8
132.5°	423.6	421.7	419.7	417.5	415.2	412.5	410.3	407.4	405.0	402.5	402.3
135°	412.0	410.0	408.3	406.2	404.0	401.5	399.0	396.5	394.2	391.5	391.6
137.5°	402.4	400.7	399.0	397.0	394.9	392.4	390.2	387.8	385.5	382.9	382.9
140°	393.9	392.4	390.7	388.6	386.9	384.7	382.5	380.2	378.0	375.5	375.8
142.5°	383.8	382.4	381.1	379.4	377.9	375.7	373.9	371.8	369.9	367.8	368.4
145°	377.8	376.6	375.5	374.0	372.5	370.7	369.1	367.1	365.6	363.6	364.3
147.5°	372.6	371.6	370.7	369.5	368.3	366.6	365.2	363.5	362.1	360.5	361.3
150°	368.1	367.3	366.4	365.3	364.0	362.6	361.2	359.8	358.3	356.8	357.4
152.5°	363.0	362.0	361.3	360.2	359.0	357.4	356.5	354.9	353.6	352.2	352.8
155°	361.0	360.1	359.0	358.1	356.9	355.7	354.4	353.1	351.9	350.5	351.0
157.5°	360.8	359.8	359.1	357.9	357.3	356.0	355.1	354.0	353.0	351.9	352.1
160°	362.2	361.4	360.5	359.6	358.6	357.4	356.5	355.5	354.7	353.6	353.8
162.5°	364.0	363.0	362.1	361.1	360.4	359.1	358.4	357.4	356.6	355.5	355.8
165°	366.7	366.2	365.5	364.8	364.0	363.3	362.6	361.8	361.1	360.2	360.3
167.5°	372.0	371.1	370.6	369.7	368.9	368.1	367.3	366.4	365.9	364.8	365.0
170°	375.0	374.2	373.8	373.4	372.8	372.2	371.8	371.2	370.7	370.1	370.3
172.5°	378.1	377.5	377.2	376.9	376.4	376.1	375.6	375.2	375.0	374.4	374.8
175°	379.3	378.8	378.7	378.4	378.1	377.9	377.7	377.4	377.4	377.0	377.1
177.5°	382.1	381.9	381.9	381.8	381.8	381.6	381.5	381.2	381.1	381.1	381.2
180°	384.3	384.3	384.3	384.3	384.3	384.3	384.3	384.3	384.3	384.3	384.3



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CANDELA DISTRIBUTION (continued):

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
0°	38337.2	38337.2	38337.2	38337.2	38337.2	38337.2	38337.2	38337.2	38337.2	38337.2	38337.2
2.5°	38457.1	38452.4	38446.0	38437.8	38430.9	38422.9	38403.7	38397.9	38404.3	38408.6	38417.4
5°	38548.4	38551.1	38552.1	38569.5	38584.6	38622.3	38917.3	39034.4	39125.1	39182.7	39270.0
7.5°	38824.0	38912.6	39000.2	39118.2	39219.9	39357.3	39873.4	40093.0	40249.2	40361.4	40499.5
10°	39290.8	39484.3	39665.8	39878.3	40061.1	40270.3	40750.7	40964.7	41099.8	41198.1	41289.9
12.5°	39761.1	40029.5	40272.0	40508.6	40706.4	40887.8	41056.7	41131.6	41138.0	41141.1	41092.4
15°	40006.1	40262.7	40476.3	40632.7	40749.0	40800.4	40509.6	40357.0	40164.2	40005.3	39744.0
17.5°	39851.4	40005.3	40097.7	40088.6	40040.6	39879.7	39056.0	38602.8	38153.0	37747.7	37216.1
20°	39164.2	39152.4	39072.1	38844.7	38570.6	38144.4	36732.0	35917.2	35129.4	34437.4	33598.0
22.5°	37885.6	37684.5	37403.9	36913.4	36368.6	35624.0	33600.0	32401.4	31304.6	30335.8	29250.4
25°	36033.0	35619.1	35101.8	34323.2	33476.4	32390.3	29895.8	28404.9	27088.1	25946.0	24693.7
27.5°	33662.0	33038.7	32280.5	31202.8	30055.6	28664.2	25898.6	24253.3	22839.7	21615.2	20282.4
30°	30855.1	30044.3	29065.3	27727.7	26344.0	24765.9	21961.0	20294.5	18863.6	17603.9	16270.1
32.5°	27683.0	26733.3	25586.1	24084.9	22588.5	20965.9	18257.0	16643.9	15277.1	14065.2	12858.0
35°	24184.3	23165.9	21952.2	20421.0	18933.6	17356.0	14870.4	13415.9	12209.0	11137.8	10163.0
37.5°	20431.4	19431.5	18277.9	16834.7	15455.4	14025.9	11881.2	10662.4	9649.5	8760.5	8007.7
40°	16529.4	15654.3	14656.2	13408.6	12231.5	11040.9	9280.3	8312.9	7513.6	6835.5	6271.5
42.5°	12675.2	11997.0	11231.6	10245.7	9344.9	8438.4	7083.4	6366.5	5774.5	5286.4	4887.7
45°	9196.2	8742.6	8229.3	7543.9	6920.5	6288.2	5323.8	4820.1	4434.6	4119.8	3853.7
47.5°	6428.6	6165.5	6149.5	5516.1	5059.0	4672.4	4051.1	3732.9	3496.6	3305.9	3137.4
50°	4514.7	4387.4	4229.2	4003.1	3791.0	3572.5	3194.0	3001.6	2863.2	2747.7	2641.1
52.5°	3375.1	3308.9	3224.7	3104.8	2989.8	2866.9	2627.4	2504.9	2461.4	2353.9	2269.5
55°	2695.8	2657.8	2609.9	2539.4	2469.5	2441.5	2236.2	2145.3	2087.7	2045.3	2000.0
57.5°	2239.2	2210.9	2182.5	2134.8	2094.3	2045.3	1936.3	1889.7	1855.4	1830.4	1799.0
60°	1910.0	1893.1	1877.2	1849.2	1827.3	1800.9	1731.7	1705.4	1687.5	1672.5	1652.4
62.5°	1685.8	1677.2	1668.9	1653.9	1642.9	1628.6	1581.3	1568.6	1559.6	1552.1	1539.9
65°	1523.9	1517.7	1513.2	1503.2	1497.7	1489.3	1448.7	1440.2	1434.6	1431.9	1424.8
67.5°	1377.0	1370.4	1367.4	1360.3	1358.0	1352.8	1319.5	1314.9	1313.0	1313.8	1311.3
70°	1239.4	1236.6	1238.1	1236.9	1240.1	1241.0	1220.9	1220.8	1222.9	1227.2	1227.6
72.5°	1156.9	1156.9	1158.5	1159.3	1162.3	1163.7	1146.9	1146.1	1147.0	1150.2	1150.3
75°	1078.5	1079.8	1084.1	1085.6	1089.0	1089.8	1067.6	1065.0	1065.2	1068.1	1067.2
77.5°	970.0	974.6	982.8	987.0	993.8	995.2	970.2	967.3	967.4	970.4	967.9
80°	846.8	855.8	868.7	877.6	888.2	892.4	866.8	860.7	855.0	854.2	849.1
82.5°	715.9	726.9	742.3	750.5	761.7	764.3	721.5	713.4	708.5	709.0	704.3
85°	546.6	554.8	568.9	573.5	580.4	579.8	530.9	510.0	515.7	506.9	513.8
87.5°	342.8	347.7	356.5	357.6	360.9	360.2	311.0	301.3	298.5	298.6	295.1
90°	180.4	184.4	192.8	193.6	199.3	199.4	160.3	156.4	152.3	153.6	148.1
92.5°	57.7	61.4	65.4	69.2	73.3	77.2	76.6	79.2	75.6	71.4	68.0
95°	65.6	71.8	77.9	84.2	90.4	96.6	102.8	108.9	103.1	97.3	91.5
97.5°	73.7	81.0	88.2	95.6	102.9	110.3	117.6	124.9	118.7	112.2	106.0
100°	96.3	110.0	123.5	137.0	150.6	164.3	177.9	191.6	179.6	167.4	155.4
102.5°	196.5	225.5	254.3	283.2	312.0	341.0	370.1	399.0	371.5	343.8	316.1
105°	377.2	424.1	470.9	517.5	564.3	611.2	658.4	705.2	661.2	617.2	573.2
107.5°	595.7	643.3	690.5	737.9	785.4	832.8	881.0	928.5	885.5	842.3	799.4
110°	732.0	766.4	801.1	835.5	870.0	904.6	940.1	974.6	948.8	922.8	896.9



TEST NUMBER: P1444477
 CATALOG NUMBER: EHBR1-48-UNV-TA-L830-UPL24

CANDELA DISTRIBUTION (continued):

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
112.5°	763.0	787.8	812.4	836.9	861.3	885.9	911.9	936.7	923.5	910.2	897.2
115°	723.7	740.4	756.7	773.2	789.6	805.9	823.9	840.9	836.3	831.9	827.5
117.5°	654.7	663.7	672.7	681.8	690.6	699.6	710.7	720.0	720.3	720.7	721.1
120°	581.0	584.8	588.3	591.9	595.3	598.7	604.6	608.8	611.9	614.8	617.9
122.5°	519.1	520.2	521.2	522.3	523.3	524.3	528.1	529.8	531.7	533.5	535.5
125°	469.9	470.2	470.4	470.8	470.7	471.1	474.5	475.3	475.0	474.5	474.3
127.5°	437.9	437.6	437.2	436.9	436.1	435.9	438.8	439.1	437.2	435.2	433.1
130°	415.6	415.4	415.1	415.1	414.9	414.7	418.1	418.8	415.7	412.3	409.2
132.5°	402.1	402.1	401.8	401.9	401.8	401.7	405.5	406.3	403.0	399.1	395.7
135°	391.5	391.6	391.5	391.5	391.5	391.8	396.0	397.1	393.8	390.1	386.8
137.5°	382.7	382.8	382.9	383.1	383.1	383.2	388.1	389.2	386.5	383.4	380.7
140°	375.9	376.1	376.3	376.7	376.8	377.4	382.6	384.0	381.8	379.4	377.0
142.5°	368.6	369.3	369.9	370.8	371.3	372.2	378.1	379.9	378.2	376.3	374.6
145°	364.8	365.8	366.4	367.5	368.2	369.4	376.0	378.3	377.2	375.8	374.5
147.5°	361.5	362.3	363.1	363.9	364.7	366.0	373.1	375.3	374.6	373.6	372.7
150°	358.0	358.9	359.5	360.5	361.7	362.8	370.8	373.5	372.8	372.1	371.3
152.5°	353.3	354.0	354.7	355.5	356.4	357.4	367.3	370.2	369.7	368.8	368.3
155°	351.4	351.8	352.2	353.0	353.4	354.5	365.0	368.1	367.7	367.2	366.6
157.5°	352.2	352.4	352.5	353.0	353.3	353.8	364.9	368.2	367.7	367.3	366.8
160°	353.7	353.9	353.9	354.2	354.3	354.5	366.2	369.2	368.9	368.3	367.8
162.5°	355.9	356.5	356.5	356.9	357.1	357.7	369.3	372.7	372.0	371.5	370.8
165°	360.4	360.3	360.4	360.5	360.6	360.8	371.8	374.6	374.3	373.7	373.3
167.5°	365.0	365.3	365.2	365.6	365.7	366.2	376.3	379.1	378.8	378.1	377.9
170°	370.3	370.6	370.6	370.8	371.1	371.5	380.0	382.3	382.1	381.3	381.0
172.5°	375.0	375.3	375.6	375.9	376.2	376.7	383.9	386.0	385.7	385.3	384.7
175°	377.4	377.5	377.9	378.2	378.5	378.8	384.5	386.0	385.8	385.5	385.3
177.5°	381.5	381.6	381.9	382.2	382.5	382.7	386.1	387.1	387.0	387.0	386.9
180°	384.3	384.3	384.3	384.3	384.3	384.3	384.3	384.3	384.3	384.3	384.3



TEST NUMBER: P1444477
 CATALOG NUMBER: EHBR1-48-UNV-TA-L830-UPL24

CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
0°	38337.2	38337.2	38337.2	38337.2	38337.2	38337.2	38337.2	38337.2	38337.2	38337.2	38337.2
2.5°	38419.4	38432.9	38434.9	38450.7	38449.4	38468.1	38465.2	38480.5	38471.6	38484.2	38473.5
5°	39321.7	39403.6	39446.4	39526.2	39551.5	39623.0	39643.2	39708.4	39711.1	39762.8	39751.0
7.5°	40597.5	40718.2	40789.7	40888.5	40938.5	41020.8	41057.0	41117.9	41137.4	41185.8	41189.4
10°	41359.3	41417.9	41458.8	41486.4	41511.6	41523.4	41537.1	41533.4	41537.1	41531.7	41543.5
12.5°	41059.7	40974.2	40917.6	40810.5	40748.4	40630.0	40572.0	40458.1	40416.8	40319.0	40305.0
15°	39542.1	39244.1	39033.5	38727.2	38534.6	38233.3	38057.0	37785.1	37660.9	37444.8	37388.2
17.5°	36776.1	36222.8	35794.5	35245.3	34864.1	34350.7	34027.9	33602.9	33370.3	33027.5	32908.9
20°	32898.2	32079.6	31437.3	30672.1	30124.6	29442.3	29005.5	28454.6	28134.8	27713.9	27543.3
22.5°	28345.5	27326.2	26524.0	25620.1	24959.5	24199.1	23675.9	23079.9	22731.9	22274.7	22072.1
25°	23652.9	22529.0	21637.1	20684.7	19986.7	19224.5	18701.1	18115.6	17755.6	17321.5	17120.3
27.5°	19165.1	18027.2	17165.4	16279.9	15639.6	14951.8	14479.6	13968.4	13648.8	13278.3	13089.0
30°	15204.5	14201.0	13467.5	12732.7	12200.0	11641.5	11249.0	10825.4	10545.0	10227.7	10047.5
32.5°	11977.8	11203.0	10628.7	10045.6	9609.7	9142.9	8803.8	8430.0	8177.0	7893.6	7730.4
35°	9486.2	8884.2	8426.2	7946.2	7571.7	7174.2	6875.3	6552.7	6325.6	6081.7	5940.7
37.5°	7495.1	7016.4	6639.5	6240.8	5933.2	5603.9	5492.9	5122.6	4887.4	4692.7	4557.8
40°	5882.2	5501.6	5189.6	4884.7	4633.9	4384.1	4183.6	3985.8	3833.9	3694.7	3598.4
42.5°	4593.5	4317.8	4090.0	3866.6	3683.6	3501.6	3356.4	3220.1	3117.8	3026.8	2964.7
45°	3651.7	3462.0	3303.7	3146.4	3017.2	2895.7	2798.0	2711.0	2645.0	2590.3	2551.5
47.5°	2999.9	2870.1	2758.4	2652.3	2564.6	2485.0	2419.5	2398.2	2327.2	2279.3	2261.1
50°	2549.5	2471.1	2386.3	2308.0	2249.4	2191.1	2148.7	2107.0	2080.5	2058.5	2051.8
52.5°	2213.3	2153.4	2106.2	2056.6	2018.0	1976.5	1947.2	1919.5	1904.9	1893.4	1892.0
55°	1963.4	1921.5	1890.3	1857.0	1833.9	1809.5	1794.4	1779.7	1773.3	1767.5	1767.9
57.5°	1774.3	1746.3	1726.0	1704.4	1691.9	1680.3	1676.4	1672.8	1674.7	1675.6	1678.9
60°	1636.5	1618.4	1605.5	1593.2	1587.9	1584.3	1587.1	1590.3	1597.0	1602.4	1607.2
62.5°	1531.0	1520.6	1514.3	1507.6	1507.1	1507.4	1513.1	1518.6	1526.9	1533.2	1537.9
65°	1422.2	1416.3	1414.2	1410.0	1412.2	1413.4	1420.2	1424.5	1432.9	1437.8	1443.8
67.5°	1312.4	1311.0	1312.2	1312.2	1316.1	1319.4	1325.9	1330.8	1337.8	1342.4	1347.3
70°	1231.3	1231.9	1234.9	1235.4	1239.5	1241.8	1247.5	1250.6	1257.0	1260.8	1266.6
72.5°	1152.4	1151.1	1151.9	1150.0	1151.4	1150.8	1154.0	1155.5	1161.0	1164.0	1171.1
75°	1068.4	1064.9	1064.0	1060.3	1060.4	1057.6	1058.9	1058.8	1062.3	1063.7	1068.9
77.5°	967.0	961.1	958.2	951.8	951.7	949.3	951.8	953.4	959.7	962.6	968.5
80°	845.7	836.3	832.1	824.7	825.9	825.5	831.7	836.5	844.1	845.6	852.9
82.5°	702.9	693.4	688.9	681.5	683.2	683.4	689.1	690.1	696.7	699.6	708.2
85°	503.3	506.9	496.8	497.6	495.4	499.5	503.3	508.1	513.6	522.9	530.0
87.5°	296.4	295.1	298.6	299.1	304.2	306.9	315.1	319.8	329.1	336.3	349.4
90°	147.7	142.3	144.5	142.2	146.5	144.3	148.4	145.6	150.5	150.5	157.1
92.5°	63.5	59.9	55.5	51.9	47.7	44.3	42.0	40.6	38.3	37.0	34.7
95°	85.8	80.0	74.3	68.5	62.8	57.0	54.8	52.7	50.6	48.5	46.4
97.5°	99.9	93.6	87.4	81.0	74.8	68.7	67.3	65.9	64.4	63.0	61.6
100°	143.2	131.3	119.3	107.3	95.4	83.4	82.2	81.1	80.0	78.9	77.7
102.5°	288.7	261.2	233.7	206.2	178.7	151.1	146.3	141.5	136.8	132.0	127.2
105°	529.1	484.9	441.0	396.9	353.0	309.0	295.9	282.6	269.5	256.4	243.4
107.5°	756.3	713.3	670.4	627.5	584.6	541.7	520.9	500.2	479.3	458.6	437.9
110°	870.7	844.8	819.2	793.0	767.4	741.6	721.6	701.9	681.9	662.2	642.4



TEST NUMBER: P1444477
 CATALOG NUMBER: EHBR1-48-UNV-TA-L830-UPL24

CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
112.5°	884.0	870.9	857.7	844.6	831.7	818.6	808.9	799.2	789.6	779.8	769.9
115°	823.0	818.6	814.3	810.0	805.9	801.4	800.6	799.9	798.9	798.2	797.5
117.5°	721.4	721.8	722.1	722.7	723.1	723.7	728.7	733.4	738.5	743.7	749.0
120°	620.9	624.0	626.9	630.1	633.2	636.5	643.0	649.7	656.4	663.3	670.2
122.5°	537.3	539.4	541.0	543.2	545.2	547.3	553.6	560.2	566.7	573.4	580.3
125°	473.5	473.1	472.7	472.1	471.6	471.5	476.6	481.7	487.2	492.7	498.1
127.5°	431.0	428.7	426.6	424.6	422.4	420.5	423.2	426.1	428.9	432.0	435.1
130°	405.9	402.6	399.0	395.9	392.4	389.3	390.0	390.9	391.7	392.7	393.7
132.5°	391.8	388.2	384.3	380.6	376.7	373.1	372.3	371.8	371.1	370.8	370.5
135°	383.1	379.6	375.8	372.2	368.5	365.0	363.7	362.2	361.0	359.8	358.8
137.5°	377.8	374.8	371.8	369.0	365.7	362.9	361.0	359.5	357.7	356.5	355.0
140°	374.5	372.2	369.5	367.2	364.6	362.3	360.6	359.4	357.8	356.7	355.4
142.5°	372.4	370.7	368.7	366.8	364.8	363.0	361.5	360.2	358.8	357.6	356.3
145°	373.1	371.9	370.4	369.1	367.6	366.3	364.8	363.9	362.7	361.8	360.9
147.5°	371.8	370.7	369.8	368.7	367.7	366.6	365.6	365.0	363.9	363.3	362.5
150°	370.3	369.4	368.4	367.8	366.5	365.8	365.0	364.5	363.7	363.4	362.7
152.5°	367.2	366.5	365.7	365.0	364.0	363.2	362.5	362.1	361.6	361.2	360.4
155°	366.0	365.4	364.7	364.1	363.3	362.8	362.1	361.4	360.8	360.3	359.6
157.5°	366.3	365.7	364.9	364.6	363.7	363.2	362.6	362.0	361.3	360.8	360.2
160°	367.3	366.9	366.2	365.6	365.0	364.5	363.5	363.1	362.1	361.7	360.7
162.5°	370.2	369.4	368.9	368.1	367.4	366.7	366.1	365.5	364.8	364.3	363.6
165°	372.7	372.2	371.6	371.0	370.6	370.0	369.3	368.6	367.8	367.2	366.4
167.5°	377.3	376.9	376.4	375.9	375.2	374.7	374.0	373.4	372.6	372.0	371.0
170°	380.4	379.7	379.3	378.6	378.1	377.4	376.7	376.1	375.3	375.0	374.0
172.5°	384.2	384.1	383.4	383.0	382.3	381.9	381.4	381.0	380.3	379.8	379.4
175°	385.2	385.0	384.9	384.4	384.3	384.1	383.8	383.6	383.3	383.2	382.7
177.5°	386.9	386.7	386.7	386.4	386.3	386.3	386.0	385.8	385.6	385.3	385.2
180°	384.3	384.3	384.3	384.3	384.3	384.3	384.3	384.3	384.3	384.3	384.3



TEST NUMBER: P1444477
 CATALOG NUMBER: EHBR1-48-UNV-TA-L830-UPL24

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	92.5°	95°	97.5°	100°	102.5°	105°	107.5°
0°	38337.2	38337.2	38337.2	38337.2	38337.2	38337.2	38337.2	38337.2	38337.2	38337.2	38337.2
2.5°	38484.6	38474.8	38479.5	38461.5	38465.8	38444.0	38442.0	38417.4	38415.0	38391.9	38383.1
5°	39787.6	39766.2	39790.4	39752.7	39760.1	39711.1	39707.0	39643.6	39621.8	39542.4	39508.2
7.5°	41219.7	41211.6	41226.3	41194.9	41193.8	41150.1	41132.0	41075.2	41039.9	40956.8	40903.5
10°	41533.4	41540.8	41528.7	41531.7	41514.7	41510.0	41492.5	41481.4	41452.8	41431.3	41399.4
12.5°	40230.7	40238.5	40188.7	40220.3	40195.4	40253.6	40248.9	40317.4	40327.8	40414.5	40447.4
15°	37219.8	37210.5	37115.1	37175.2	37142.9	37270.5	37299.1	37470.7	37562.5	37782.9	37918.3
17.5°	32671.5	32646.9	32512.6	32585.8	32548.6	32736.7	32799.8	33074.3	33245.5	33600.6	33853.6
20°	27249.6	27202.6	27045.5	27131.1	27092.8	27306.5	27396.6	27728.3	27949.1	28419.4	28754.0
22.5°	21760.4	21686.1	21532.2	21612.2	21576.0	21797.4	21914.6	22247.5	22500.4	22983.2	23373.8
25°	16831.2	16764.9	16616.2	16672.2	16658.7	16846.0	16950.2	17265.1	17513.6	17973.5	18346.4
27.5°	12837.5	12768.7	12634.2	12673.9	12660.2	12819.8	12918.1	13181.1	13394.9	13782.1	14109.5
30°	9825.2	9742.1	9628.1	9650.1	9640.7	9770.0	9861.8	10083.3	10266.6	10593.8	10875.8
32.5°	7531.0	7447.5	7342.8	7353.1	7339.2	7440.7	7516.2	7708.9	7868.6	8146.8	8392.3
35°	5762.3	5859.9	5636.3	5777.9	5630.5	5846.9	5769.1	5889.5	6026.9	6261.2	6466.0
37.5°	4429.8	4361.8	4304.3	4298.1	4297.8	4348.0	4407.2	4523.2	4644.2	4818.9	4999.3
40°	3510.4	3462.6	3425.5	3422.7	3425.5	3461.1	3504.9	3585.0	3673.7	3799.1	3931.6
42.5°	2911.6	2879.8	2857.4	2855.8	2863.0	2888.2	2918.7	2966.3	3024.0	3105.2	3196.1
45°	2519.9	2502.3	2489.9	2489.1	2492.4	2505.6	2523.1	2552.8	2589.3	2640.0	2697.5
47.5°	2245.2	2240.9	2233.1	2233.4	2229.8	2235.3	2237.2	2253.8	2273.3	2311.5	2386.7
50°	2045.1	2045.1	2039.7	2039.4	2034.3	2034.1	2029.8	2036.3	2045.4	2069.1	2093.2
52.5°	1887.0	1886.4	1880.6	1879.5	1874.1	1873.8	1870.0	1872.7	1873.9	1885.9	1900.2
55°	1763.4	1759.7	1752.0	1749.6	1747.4	1750.6	1749.2	1749.3	1747.7	1752.8	1757.0
57.5°	1674.7	1669.9	1662.7	1660.5	1659.9	1663.6	1663.8	1662.5	1655.8	1651.3	1644.9
60°	1604.5	1599.7	1591.8	1589.9	1591.0	1596.2	1595.9	1591.6	1581.6	1573.0	1562.9
62.5°	1535.6	1533.7	1529.6	1529.1	1528.1	1529.0	1525.4	1520.8	1511.0	1501.8	1490.9
65°	1443.1	1444.1	1441.1	1441.6	1438.0	1437.5	1432.0	1427.6	1417.7	1409.3	1398.1
67.5°	1347.1	1347.8	1345.4	1345.4	1343.5	1343.8	1340.5	1336.4	1328.1	1321.2	1312.5
70°	1267.9	1269.9	1268.5	1269.0	1266.6	1265.8	1260.7	1256.7	1248.1	1242.4	1234.6
72.5°	1173.1	1177.4	1177.3	1178.3	1174.9	1173.1	1167.0	1162.1	1154.3	1149.7	1143.4
75°	1070.8	1076.4	1078.0	1080.4	1075.5	1073.0	1066.3	1062.3	1056.0	1053.2	1049.1
77.5°	971.0	977.1	982.9	988.3	980.5	973.5	965.2	958.8	949.6	946.2	939.7
80°	858.9	869.6	882.6	893.4	879.4	865.1	851.4	841.2	829.1	824.1	816.2
82.5°	712.6	723.6	731.0	737.9	728.2	717.8	704.4	695.5	682.4	677.6	668.3
85°	541.3	555.1	559.5	563.2	557.0	551.4	538.9	522.0	513.8	500.9	494.2
87.5°	356.0	364.3	365.9	367.1	363.3	360.6	352.5	344.5	330.5	320.3	307.7
90°	155.7	160.1	155.9	156.9	153.0	154.6	147.4	145.8	135.3	132.1	122.8
92.5°	33.1	30.9	29.1	27.3	29.7	31.0	33.3	34.7	36.9	38.3	40.6
95°	44.3	42.2	40.1	37.9	39.6	41.3	43.0	44.7	46.4	48.1	49.7
97.5°	60.2	58.8	57.4	56.0	57.0	58.0	59.0	59.9	61.0	61.9	63.1
100°	76.6	75.5	74.4	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3
102.5°	122.4	117.7	112.9	108.1	111.4	114.6	117.8	121.0	124.3	127.5	131.0
105°	230.2	217.1	204.1	191.0	203.6	216.3	229.0	241.7	254.3	267.2	280.0
107.5°	417.0	396.4	375.7	355.0	378.2	401.3	424.4	447.5	470.5	493.6	517.0
110°	622.7	603.1	583.3	563.6	588.1	612.6	637.1	661.5	686.1	710.6	735.3



TEST NUMBER: P1444477
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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	92.5°	95°	97.5°	100°	102.5°	105°	107.5°
112.5°	760.3	750.8	741.2	731.7	747.4	763.1	779.0	795.0	810.7	826.6	842.5
115°	796.8	796.2	795.6	795.1	802.6	810.0	817.5	825.1	832.6	840.0	847.8
117.5°	754.1	759.2	764.5	769.9	772.3	774.7	777.3	779.6	782.3	784.8	787.5
120°	677.1	684.0	691.1	698.3	697.3	696.3	695.4	694.5	693.9	693.1	692.7
122.5°	587.1	594.1	601.2	608.3	606.2	604.1	602.1	600.1	598.5	596.6	595.0
125°	503.9	509.7	515.5	521.5	519.3	517.3	515.2	513.6	511.7	509.9	508.4
127.5°	438.6	442.1	445.4	449.2	448.1	447.2	446.6	445.8	445.2	444.8	444.5
130°	394.9	396.3	398.0	399.4	399.7	400.0	400.7	401.3	402.1	402.8	403.9
132.5°	370.7	370.5	370.7	370.9	372.1	373.2	374.7	376.1	378.0	379.5	381.8
135°	358.0	357.4	356.7	356.3	358.0	359.5	361.6	363.5	365.9	368.3	370.8
137.5°	354.0	353.0	352.1	351.2	352.9	354.5	356.5	358.5	360.8	363.2	365.9
140°	354.5	353.4	352.9	352.0	353.7	355.2	357.2	359.1	361.5	363.8	366.3
142.5°	355.5	354.4	353.8	353.2	354.5	356.0	357.9	359.7	361.8	363.8	366.2
145°	360.1	359.2	358.9	358.2	359.1	360.3	361.6	363.0	364.6	366.0	367.9
147.5°	361.9	361.4	361.1	360.6	361.5	362.2	363.2	364.0	365.4	366.5	367.9
150°	362.6	362.0	361.8	361.6	362.0	362.4	363.2	363.5	364.4	365.1	366.3
152.5°	360.4	359.7	359.8	359.4	359.7	360.1	360.6	361.1	361.8	362.3	363.3
155°	359.3	358.9	358.4	358.0	358.0	358.0	358.3	358.3	358.7	358.9	359.2
157.5°	359.9	359.3	359.0	358.5	358.4	358.0	358.1	357.9	358.1	357.7	357.9
160°	360.4	359.5	358.9	358.3	358.3	358.0	358.2	357.9	358.0	358.0	358.2
162.5°	363.2	362.6	362.2	361.7	361.4	360.7	360.4	359.9	359.6	359.3	359.2
165°	365.6	364.9	364.4	363.5	363.3	363.2	362.8	362.6	362.4	362.1	362.0
167.5°	370.7	369.8	369.3	368.5	368.1	367.4	367.1	366.5	366.2	365.7	365.6
170°	373.7	372.9	372.5	372.0	371.7	371.2	371.1	370.7	370.6	370.4	370.4
172.5°	378.9	378.3	378.0	377.5	377.2	376.9	376.7	376.7	376.4	376.4	376.2
175°	382.6	382.3	382.2	381.9	381.6	381.4	381.2	381.1	381.0	380.6	380.5
177.5°	384.7	384.5	384.3	384.2	384.1	384.1	384.1	384.1	384.1	384.0	383.8
180°	384.3	384.3	384.3	384.3	384.3	384.3	384.3	384.3	384.3	384.3	384.3



TEST NUMBER: P1444477
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CANDELA DISTRIBUTION (continued):

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°
0°	38337.2	38337.2	38337.2	38337.2	38337.2	38337.2	38337.2	38337.2	38337.2	38337.2	38337.2
2.5°	38358.3	38348.2	38321.7	38308.6	38284.0	38271.7	38252.5	38240.1	38224.7	38213.1	38207.1
5°	39421.1	39372.0	39273.8	39213.3	39107.1	39037.2	38931.8	38854.5	38745.7	38665.4	38562.5
7.5°	40803.8	40728.6	40602.7	40507.1	40358.7	40245.1	40078.5	39945.2	39761.1	39608.2	39420.1
10°	41366.7	41322.8	41266.3	41204.9	41122.6	41042.0	40928.2	40812.2	40657.7	40503.9	40303.0
12.5°	40534.8	40576.1	40657.7	40695.7	40758.1	40779.2	40807.8	40794.4	40769.1	40706.4	40615.3
15°	38178.3	38350.9	38623.7	38812.4	39076.8	39262.5	39508.2	39666.3	39848.4	39957.3	40060.7
17.5°	34302.0	34635.9	35117.3	35501.4	36016.9	36436.1	36949.7	37353.2	37819.2	38176.6	38557.1
20°	29337.1	29804.7	30469.2	31033.5	31780.7	32414.2	33225.7	33905.6	34698.7	35359.8	36073.3
22.5°	23993.5	24543.6	25304.9	25985.7	26877.8	27674.6	28691.5	29590.4	30662.6	31623.1	32685.5
25°	18952.4	19491.5	20267.2	20972.0	21935.0	22812.8	23923.7	24955.0	26199.2	27359.5	28691.5
27.5°	14629.5	15108.3	15790.1	16424.5	17306.6	18168.3	19295.7	20395.4	21723.0	22970.0	24405.4
30°	11298.1	11686.6	12232.9	12743.2	13451.3	14156.1	15160.3	16177.3	17498.4	18790.5	20262.1
32.5°	8755.7	9086.8	9542.9	9957.2	10502.8	11034.2	11773.8	12586.5	13745.3	14982.9	16405.9
35°	6777.8	7061.2	7449.4	7806.3	8254.9	8676.8	9228.6	9808.7	10693.1	11734.2	13007.6
37.5°	5403.7	5519.2	5796.3	6088.6	6461.3	6808.0	7239.6	7668.6	8301.3	9122.7	10163.0
40°	4109.4	4292.8	4518.3	4748.6	5030.9	5308.9	5782.5	6010.5	6427.0	7016.7	7824.1
42.5°	3315.8	3444.7	3603.5	3763.6	3960.2	4153.9	4393.4	4637.5	4948.8	5348.2	5922.5
45°	2774.7	2858.8	2961.1	3067.8	3197.0	3329.2	3489.5	3657.0	3868.0	4113.6	4462.4
47.5°	2413.2	2459.7	2526.5	2599.4	2687.9	2779.4	2883.7	2990.4	3121.6	3267.1	3465.8
50°	2131.1	2169.9	2221.8	2270.5	2331.6	2425.3	2466.7	2525.6	2604.5	2690.2	2801.3
52.5°	1926.9	1952.8	1985.4	2013.3	2052.0	2087.1	2133.1	2173.7	2228.2	2279.7	2351.4
55°	1767.9	1777.3	1795.8	1813.8	1840.5	1864.5	1896.1	1922.7	1957.4	1988.3	2033.5
57.5°	1645.1	1646.0	1654.5	1663.9	1681.1	1696.2	1717.9	1735.3	1759.5	1779.2	1806.3
60°	1556.9	1552.2	1553.9	1557.2	1566.9	1576.7	1590.6	1602.0	1617.1	1628.3	1643.5
62.5°	1483.5	1476.1	1474.4	1473.5	1478.4	1481.9	1489.5	1495.0	1503.7	1508.5	1516.6
65°	1390.7	1382.0	1378.6	1374.6	1376.0	1374.9	1377.8	1377.9	1382.3	1383.3	1388.0
67.5°	1306.6	1299.3	1294.9	1289.6	1287.1	1283.3	1281.6	1277.9	1277.3	1274.2	1273.5
70°	1229.9	1222.8	1219.0	1214.1	1211.5	1206.4	1203.3	1197.0	1193.4	1187.6	1184.3
72.5°	1141.1	1137.1	1135.9	1132.6	1131.6	1128.8	1127.5	1123.1	1120.6	1115.6	1112.8
75°	1048.3	1045.0	1044.7	1041.3	1041.1	1037.6	1036.7	1032.1	1029.6	1024.7	1022.6
77.5°	937.7	932.9	931.5	927.5	928.5	926.8	928.2	924.6	923.1	918.2	916.6
80°	813.3	807.1	804.4	799.2	800.6	798.3	800.6	800.3	802.2	798.3	797.5
82.5°	665.8	659.0	657.7	654.0	656.4	656.7	662.0	659.2	660.3	656.5	658.1
85°	484.5	479.4	472.3	471.3	466.8	471.4	465.4	469.5	462.7	467.4	461.2
87.5°	300.4	289.8	284.3	276.8	273.9	266.7	263.7	258.4	260.0	257.6	259.0
90°	121.5	113.3	112.8	106.8	107.4	102.5	104.6	101.5	104.3	101.1	104.3
92.5°	42.0	43.7	47.0	50.8	53.9	57.2	60.6	64.4	67.4	71.1	74.2
95°	51.4	53.1	57.6	62.1	66.6	71.1	75.8	80.3	84.8	89.3	93.8
97.5°	64.1	65.1	69.6	74.1	78.6	83.1	87.6	92.4	96.9	101.4	105.8
100°	73.3	73.3	86.2	98.9	111.7	124.8	137.5	150.3	163.5	176.2	189.0
102.5°	134.1	137.4	169.7	202.2	234.6	266.9	299.5	332.0	364.3	397.0	429.4
105°	292.6	305.4	354.7	404.3	453.6	503.1	552.8	602.4	651.9	701.4	750.9
107.5°	540.0	563.1	607.9	652.6	697.2	742.1	787.0	831.8	876.5	921.3	966.4
110°	759.9	784.5	814.4	844.5	874.6	904.6	934.7	964.8	995.1	1025.2	1055.6



TEST NUMBER: P1444477
 CATALOG NUMBER: EHBR1-48-UNV-TA-L830-UPL24

CANDELA DISTRIBUTION (continued):

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°
112.5°	858.3	874.3	891.8	909.6	927.2	944.9	962.5	980.3	998.1	1016.0	1033.7
115°	855.5	863.3	870.1	877.2	884.2	891.3	898.3	905.6	913.0	920.1	927.4
117.5°	790.0	793.0	794.1	795.5	796.9	798.5	799.9	801.6	803.3	805.0	806.4
120°	692.0	691.4	690.5	689.9	689.0	688.5	687.9	687.4	687.0	686.5	686.0
122.5°	593.2	591.9	591.1	590.5	589.9	589.6	589.0	588.9	588.5	588.3	587.8
125°	506.9	505.6	507.1	508.6	510.2	511.9	513.4	515.5	517.2	518.9	520.8
127.5°	444.1	444.1	447.3	450.5	453.7	457.0	460.5	464.0	467.2	470.9	474.2
130°	405.0	406.3	410.2	414.4	418.3	422.5	426.8	431.2	435.1	439.3	443.4
132.5°	383.6	386.0	389.7	393.8	397.7	401.8	406.0	410.0	414.1	418.3	422.2
135°	373.5	376.4	379.9	383.7	387.4	391.3	395.0	398.9	402.5	406.3	410.0
137.5°	368.4	371.2	374.4	377.4	380.4	383.8	387.0	390.1	393.1	396.3	399.3
140°	368.9	371.7	373.6	375.8	377.8	379.9	381.8	384.1	385.8	388.2	390.0
142.5°	368.4	371.0	372.2	373.7	375.2	377.0	378.5	380.0	381.3	382.6	384.0
145°	369.6	371.7	372.2	372.9	373.5	374.1	374.6	375.3	375.6	376.2	376.6
147.5°	369.3	370.8	370.8	371.3	371.6	371.8	372.0	372.3	372.2	372.6	372.7
150°	367.1	368.2	367.9	368.0	367.8	367.8	367.5	367.6	367.3	367.3	367.0
152.5°	364.0	364.9	364.4	364.4	363.9	363.6	363.3	363.1	362.7	362.4	362.2
155°	359.4	359.8	359.5	359.4	359.1	358.9	358.7	358.9	358.7	358.6	358.6
157.5°	357.8	357.9	357.7	357.6	357.3	357.4	357.2	357.2	357.2	357.5	357.6
160°	358.0	358.2	357.9	357.7	357.6	357.4	357.4	357.4	357.5	357.9	358.1
162.5°	358.8	358.7	358.4	358.2	358.1	358.1	358.1	358.4	358.4	358.7	358.9
165°	362.1	362.2	361.7	361.7	361.4	361.2	361.1	361.1	361.3	361.4	361.6
167.5°	365.2	365.1	365.1	365.3	365.3	365.4	365.6	366.2	366.3	366.8	367.0
170°	370.3	370.4	370.2	370.1	370.0	370.0	370.0	370.0	370.2	370.3	370.3
172.5°	376.2	376.2	375.9	375.6	375.3	375.2	375.0	375.0	374.7	374.5	374.2
175°	380.2	380.1	379.9	379.8	379.6	379.4	379.2	378.8	378.6	378.5	378.3
177.5°	383.7	383.4	383.2	383.2	383.1	382.9	382.9	382.8	382.8	382.8	382.6
180°	384.3	384.3	384.3	384.3	384.3	384.3	384.3	384.3	384.3	384.3	384.3



TEST NUMBER: P1444477
 CATALOG NUMBER: EHBR1-48-UNV-TA-L830-UPL24

CANDELA DISTRIBUTION (continued):

	137.5°	140°	142.5°	145°	147.5°	150°	152.5°	155°	157.5°	160°	162.5°
0°	38337.2	38337.2	38337.2	38337.2	38337.2	38337.2	38337.2	38337.2	38337.2	38337.2	38337.2
2.5°	38199.5	38199.1	38195.3	38197.0	38197.8	38200.5	38203.8	38207.1	38207.9	38210.5	38211.1
5°	38485.3	38390.8	38320.9	38244.0	38186.2	38134.3	38099.6	38072.1	38061.4	38064.1	38070.5
7.5°	39260.6	39065.4	38904.5	38721.5	38568.9	38407.3	38273.4	38146.1	38053.2	37984.1	37945.4
10°	40111.2	39873.6	39646.3	39381.5	39130.3	38862.2	38619.3	38374.8	38170.9	37993.8	37863.8
12.5°	40488.7	40320.7	40124.3	39874.3	39605.5	39296.2	38983.8	38648.9	38337.4	38048.3	37815.1
15°	40089.0	40089.3	40017.7	39897.8	39711.1	39463.8	39166.2	38817.1	38449.7	38074.7	37732.1
17.5°	38820.2	39059.6	39192.7	39277.0	39251.2	39160.1	38970.6	38702.6	38360.0	37960.6	37542.6
20°	36641.4	37206.0	37608.6	37970.6	38173.5	38308.3	38294.8	38185.7	37941.8	37602.1	37166.8
22.5°	33589.2	34536.8	35284.7	35982.0	36471.0	36868.9	37058.0	37138.3	37027.7	36791.1	36382.3
25°	29881.9	31170.5	32270.1	33337.3	34137.8	34825.7	35239.2	35530.5	35553.6	35430.0	35065.3
27.5°	25762.6	27283.6	28675.3	30093.6	31219.3	32208.3	32857.2	33332.1	33483.0	33463.2	33132.0
30°	21648.5	23245.2	24779.2	26433.1	27826.1	29089.6	29946.8	30589.2	30836.6	30884.1	30565.6
32.5°	17763.1	19337.6	20867.4	22596.4	24129.3	25577.5	26590.3	27353.2	27641.1	27708.9	27359.5
35°	14236.9	15689.6	17143.4	18819.0	20343.2	21842.7	22909.8	23708.7	23977.5	24022.8	23618.3
37.5°	11179.1	12416.7	13683.5	15187.0	16586.7	17995.0	19008.9	19759.6	19955.5	19943.4	19485.5
40°	8604.3	9566.5	10584.4	11822.2	12985.9	14176.3	15032.6	15653.2	15756.0	15679.9	15198.9
42.5°	6470.0	7164.9	7902.9	8826.9	9690.3	10581.3	11204.2	11664.9	11679.5	11559.1	11127.4
45°	4820.1	5498.1	5807.6	6366.2	6922.4	7514.8	7895.2	8179.8	8135.8	8029.7	7701.7
47.5°	3674.5	3935.1	4211.4	4557.8	4881.8	5554.1	5504.3	5961.3	5632.1	5856.6	5362.5
50°	2917.9	3063.6	3212.4	3396.3	3565.6	3741.3	3851.1	3933.1	3922.5	3887.2	3792.6
52.5°	2482.5	2527.5	2600.8	2705.4	2799.8	2894.9	2957.5	3008.3	3009.3	2995.1	2947.2
55°	2074.8	2131.9	2184.7	2253.0	2369.4	2387.3	2476.9	2458.8	2465.8	2441.0	2466.4
57.5°	1829.3	1862.6	1892.2	1932.9	1966.5	2005.8	2028.9	2051.2	2049.1	2044.3	2019.8
60°	1655.4	1673.7	1690.2	1713.9	1732.4	1754.5	1765.2	1776.6	1772.9	1764.7	1742.9
62.5°	1521.3	1532.7	1542.2	1557.5	1568.7	1582.5	1588.1	1592.9	1588.1	1580.2	1561.0
65°	1389.0	1396.4	1402.3	1413.9	1421.8	1433.6	1438.3	1442.8	1438.4	1432.3	1417.7
67.5°	1269.6	1270.4	1269.8	1274.5	1276.9	1284.0	1286.1	1289.4	1284.3	1279.0	1266.6
70°	1179.1	1177.3	1175.0	1176.9	1177.3	1180.7	1181.3	1180.7	1174.6	1165.5	1152.0
72.5°	1108.4	1107.4	1105.7	1107.3	1107.3	1110.4	1109.3	1107.8	1100.3	1091.5	1078.2
75°	1017.5	1016.7	1013.3	1013.4	1010.6	1011.6	1007.9	1005.8	997.4	990.0	978.1
77.5°	911.0	909.4	904.4	902.5	897.1	894.8	887.9	884.4	875.9	869.9	859.7
80°	792.3	790.4	784.0	780.5	771.9	766.5	756.3	750.5	740.7	734.8	724.9
82.5°	654.9	655.6	649.1	644.7	632.6	623.2	609.5	602.1	591.3	585.6	575.4
85°	465.7	459.1	462.6	462.4	454.7	446.5	435.5	427.7	418.6	413.2	406.0
87.5°	255.4	257.0	255.2	253.7	248.2	244.1	235.4	230.9	224.2	221.0	215.5
90°	96.2	94.7	87.0	85.6	78.0	74.4	65.8	63.0	55.2	53.6	48.3
92.5°	70.3	66.6	63.0	59.0	55.5	51.7	47.9	44.1	40.3	38.7	37.7
95°	88.2	83.0	77.5	71.9	66.5	61.0	55.5	50.1	44.6	43.5	42.3
97.5°	99.5	93.0	86.6	80.3	73.8	67.3	61.0	54.5	48.1	47.3	46.6
100°	174.2	159.5	144.5	129.6	114.8	99.9	85.1	70.3	55.5	54.7	53.9
102.5°	393.2	357.3	321.2	285.2	249.4	213.3	177.2	141.1	105.1	99.9	94.7
105°	696.3	641.7	587.4	532.8	478.3	423.7	369.2	314.5	259.9	242.4	224.9
107.5°	915.2	863.8	812.8	761.5	710.3	659.2	607.8	556.5	505.2	474.3	443.5
110°	1014.9	974.3	933.9	893.2	852.7	812.0	771.4	730.7	690.1	663.6	637.2



TEST NUMBER: P1444477
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CANDELA DISTRIBUTION (continued):

	137.5°	140°	142.5°	145°	147.5°	150°	152.5°	155°	157.5°	160°	162.5°
112.5°	1004.2	974.5	945.1	915.3	885.8	855.9	826.4	796.5	766.7	750.8	734.8
115°	909.9	892.2	874.5	856.8	839.2	821.5	803.7	785.7	767.8	759.6	751.2
117.5°	797.9	789.0	780.3	771.5	762.6	753.6	744.7	735.7	726.7	724.0	721.3
120°	684.0	681.6	679.1	676.8	674.3	672.0	669.5	666.9	664.2	665.0	665.7
122.5°	589.6	591.1	592.7	594.1	595.7	597.1	598.7	599.9	601.3	604.0	606.6
125°	524.1	527.2	530.5	533.5	536.6	539.7	543.0	545.8	549.1	551.5	554.5
127.5°	478.0	481.4	485.1	488.4	492.1	495.5	499.1	502.3	505.8	508.4	511.2
130°	446.8	449.8	453.2	456.2	459.4	462.5	465.5	468.7	471.8	474.1	476.3
132.5°	425.1	428.1	431.1	433.7	436.8	439.5	442.5	445.3	448.4	450.1	452.1
135°	412.5	414.6	417.0	419.2	421.7	423.8	426.2	428.6	431.2	432.5	434.2
137.5°	401.3	403.2	405.3	407.1	409.2	411.1	413.4	415.3	417.8	418.6	420.0
140°	392.0	393.9	395.9	397.9	400.1	401.9	404.5	406.5	409.0	410.0	411.2
142.5°	385.6	387.1	388.7	390.3	392.2	393.8	395.7	397.7	399.7	400.8	401.9
145°	378.4	380.1	382.0	383.7	385.5	387.4	389.8	391.8	394.2	394.9	396.0
147.5°	374.1	375.5	377.2	378.8	380.5	382.1	384.1	386.0	388.1	389.0	389.9
150°	368.7	370.1	371.7	373.2	375.1	376.8	378.9	380.8	383.3	384.2	385.3
152.5°	363.8	365.3	367.0	368.9	370.7	372.7	374.8	376.9	379.2	380.1	381.1
155°	360.3	361.7	363.5	365.3	367.3	369.0	371.1	373.1	375.2	376.4	377.3
157.5°	359.2	360.4	362.1	363.8	365.5	367.2	369.3	370.8	372.9	373.7	374.6
160°	359.5	360.7	362.3	363.9	365.4	367.0	368.7	370.2	371.9	372.8	373.7
162.5°	360.4	361.9	363.3	364.7	366.3	367.8	369.5	371.0	372.7	373.4	374.2
165°	362.7	363.8	365.0	366.1	367.4	368.3	369.7	370.8	372.2	372.9	373.8
167.5°	368.1	368.9	369.6	370.6	371.6	372.5	373.6	374.5	375.6	376.4	377.0
170°	371.1	371.9	372.5	373.4	374.2	375.1	375.9	376.7	377.8	378.3	379.0
172.5°	374.8	375.1	375.8	376.2	376.7	377.2	377.9	378.5	379.1	379.7	380.3
175°	378.8	378.9	379.3	379.4	379.6	379.9	380.4	380.8	381.1	381.5	381.9
177.5°	382.6	382.8	382.9	383.1	383.5	383.7	383.9	384.1	384.3	384.8	385.3
180°	384.3	384.3	384.3	384.3	384.3	384.3	384.3	384.3	384.3	384.3	384.3



TEST NUMBER: P1444477
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CANDELA DISTRIBUTION (continued):

	165°	167.5°	170°	172.5°	175°	177.5°	180°	182.5°	185°	187.5°	190°
0°	38337.2	38337.2	38337.2	38337.2	38337.2	38337.2	38337.2	38337.2	38337.2	38337.2	38337.2
2.5°	38209.9	38209.4	38208.2	38206.4	38204.7	38205.7	38207.4	38211.8	38219.5	38230.6	38245.1
5°	38075.7	38083.5	38087.9	38088.5	38084.5	38082.1	38085.8	38096.3	38117.5	38153.0	38201.0
7.5°	37935.0	37944.7	37959.5	37970.6	37972.7	37970.0	37970.6	37987.0	38026.2	38095.3	38192.3
10°	37784.9	37756.3	37771.4	37798.9	37820.8	37824.8	37827.5	37847.0	37904.1	38008.6	38164.5
12.5°	37646.2	37555.8	37538.3	37563.2	37596.5	37607.1	37604.2	37612.5	37679.5	37817.8	38035.1
15°	37463.8	37293.7	37235.6	37242.0	37283.1	37297.8	37287.0	37270.5	37335.7	37504.7	37785.9
17.5°	37168.5	36894.3	36787.5	36782.8	36830.8	36843.6	36817.2	36766.0	36830.3	37041.0	37390.1
20°	36719.6	36314.9	36113.7	36081.7	36133.9	36118.7	36066.0	35988.6	36073.0	36329.4	36744.6
22.5°	35912.8	35399.9	35056.1	34945.3	35007.7	34966.1	34889.2	34790.5	34902.6	35193.8	35656.2
25°	34594.3	34001.7	33531.1	33267.1	33316.9	33242.2	33158.6	33038.9	33172.6	33506.9	34015.8
27.5°	32656.3	31971.7	31388.6	30951.6	30967.6	30869.9	30773.5	30618.7	30785.6	31181.4	31755.4
30°	30079.2	29287.0	28576.9	27983.1	27929.9	27835.1	27736.4	27533.2	27742.1	28215.8	28886.6
32.5°	26842.9	25963.3	25142.9	24391.9	24250.3	24157.8	24069.9	23836.0	24109.5	24661.8	25432.4
35°	23058.0	22121.2	21231.6	20374.0	20139.2	20046.8	19969.9	19745.8	20087.2	20688.2	21520.4
37.5°	18903.7	17946.7	17063.5	16184.0	15852.4	15726.9	15671.0	15524.3	15918.1	16512.5	17348.2
40°	14638.9	13749.0	12957.2	12180.4	11802.3	11610.4	11581.1	11554.4	11935.1	12450.8	13209.4
42.5°	10649.2	9931.3	9320.7	8726.9	8384.4	8122.3	8122.1	8201.7	8544.4	8930.7	9515.7
45°	7366.4	6884.6	6495.6	6098.9	6204.9	5682.3	5989.3	5831.8	6001.1	6250.2	6630.6
47.5°	5063.7	4800.6	4587.0	4365.3	4203.8	4049.5	4063.0	4162.5	4322.0	4469.8	4667.7
50°	3690.5	3556.6	3447.7	3332.7	3252.3	3184.2	3188.2	3231.3	3315.0	3392.9	3496.5
52.5°	2891.8	2817.9	2758.8	2695.2	2652.9	2619.1	2621.0	2641.9	2687.2	2731.6	2791.0
55°	2383.5	2374.7	2297.7	2240.6	2218.9	2196.2	2200.3	2208.5	2239.4	2265.3	2304.7
57.5°	1997.3	1962.9	1939.8	1909.8	1895.9	1880.1	1883.6	1886.7	1907.3	1924.7	1953.0
60°	1724.8	1700.3	1683.9	1663.5	1654.4	1644.3	1646.5	1648.4	1661.6	1673.1	1693.3
62.5°	1543.6	1521.7	1507.4	1491.7	1485.3	1478.5	1480.1	1480.7	1488.9	1497.2	1512.6
65°	1404.6	1387.3	1375.5	1361.9	1355.1	1348.1	1348.8	1348.8	1355.8	1361.9	1373.4
67.5°	1257.7	1244.6	1236.9	1226.2	1221.7	1214.3	1214.3	1211.9	1216.5	1218.9	1226.7
70°	1139.8	1126.6	1116.7	1106.3	1100.7	1094.4	1094.5	1094.6	1099.9	1105.4	1115.5
72.5°	1066.9	1054.3	1045.6	1036.5	1031.1	1025.7	1024.7	1024.1	1027.9	1030.9	1037.6
75°	970.4	960.3	955.3	946.7	942.4	936.3	935.3	932.5	934.4	934.9	939.9
77.5°	853.3	843.8	839.7	831.0	827.5	820.6	820.0	816.8	818.2	817.3	821.1
80°	720.0	711.2	709.0	701.9	700.2	693.8	692.8	688.9	690.1	687.1	688.6
82.5°	571.0	563.1	561.4	554.8	554.8	549.0	548.7	542.9	542.9	538.0	530.0
85°	402.2	396.4	394.0	388.6	387.0	382.4	379.9	374.4	372.4	368.9	367.8
87.5°	212.3	208.6	205.3	202.8	198.0	189.7	188.9	183.1	183.6	179.5	179.8
90°	47.4	42.5	41.8	37.3	36.3	33.1	32.2	32.2	33.0	33.1	33.9
92.5°	36.4	35.2	33.9	32.7	31.4	30.2	28.9	30.2	31.4	32.7	33.9
95°	41.2	40.1	39.0	37.8	36.7	35.6	34.5	35.6	36.7	38.0	39.2
97.5°	45.9	45.2	44.5	43.8	43.1	42.4	41.7	42.6	43.3	44.0	44.7
100°	53.0	52.2	51.3	50.5	49.6	48.8	48.0	49.1	49.9	50.8	51.6
102.5°	89.5	84.4	79.2	74.0	68.8	63.6	58.4	63.6	68.8	74.2	79.3
105°	207.3	189.9	172.4	154.7	137.1	119.6	102.0	119.7	137.2	154.8	172.6
107.5°	412.6	382.0	351.0	320.2	289.2	258.3	227.3	258.4	289.4	320.4	351.3
110°	610.5	583.9	557.3	530.7	504.0	477.4	450.7	477.5	504.3	531.0	557.7



TEST NUMBER: P1444477
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CANDELA DISTRIBUTION (continued):

	165°	167.5°	170°	172.5°	175°	177.5°	180°	182.5°	185°	187.5°	190°
112.5°	718.5	702.5	686.3	670.4	654.0	638.0	621.7	638.3	654.6	671.1	687.3
115°	743.0	734.6	726.2	717.8	709.2	700.8	692.0	701.2	709.9	718.6	727.4
117.5°	718.4	715.8	712.9	710.2	707.2	704.4	701.3	704.7	707.9	711.4	714.3
120°	666.1	666.9	667.5	668.0	668.5	668.9	669.2	669.5	669.5	669.5	669.4
122.5°	609.2	611.9	614.3	616.8	619.3	621.6	623.8	622.2	620.4	618.6	616.5
125°	557.1	560.1	562.6	565.3	567.6	570.4	572.3	571.1	569.2	567.5	565.3
127.5°	513.7	516.2	518.7	521.4	523.4	525.7	527.6	526.5	524.9	523.4	521.6
130°	478.4	480.7	482.6	484.7	486.4	488.0	489.5	488.9	487.9	487.2	485.9
132.5°	453.7	455.8	457.5	459.2	460.4	462.0	462.8	462.8	462.3	461.9	460.9
135°	435.7	437.1	438.4	440.0	440.9	441.9	442.5	443.0	442.8	442.7	442.0
137.5°	421.1	422.3	423.1	424.0	424.7	425.3	425.5	426.3	426.6	427.1	427.0
140°	412.2	413.6	414.4	415.2	416.1	416.8	417.0	417.9	418.1	418.4	418.2
142.5°	403.1	404.2	405.2	406.3	406.8	407.5	407.7	408.5	408.8	409.1	409.1
145°	397.0	397.8	398.7	399.6	400.0	400.4	400.3	401.5	401.8	402.3	402.5
147.5°	390.7	391.7	392.3	392.9	393.4	393.9	394.1	394.7	395.3	395.7	396.0
150°	386.3	387.4	388.2	389.1	389.8	390.4	390.5	391.3	391.5	391.8	391.7
152.5°	382.1	382.9	383.8	384.4	385.2	385.6	385.9	386.5	387.0	387.4	387.6
155°	378.2	379.2	380.0	380.9	381.4	382.2	382.7	383.3	383.8	384.1	384.3
157.5°	375.4	376.5	377.1	378.0	378.5	379.5	380.0	380.7	381.1	381.7	382.0
160°	374.3	375.3	375.9	376.7	377.5	378.1	378.7	379.5	380.0	380.4	381.1
162.5°	375.0	375.8	376.3	377.1	377.8	378.5	379.1	379.7	380.4	381.0	381.3
165°	374.8	375.5	376.3	377.1	378.0	378.8	379.5	379.9	380.3	380.7	381.0
167.5°	377.8	378.5	379.2	379.9	380.6	381.4	382.2	382.6	382.8	383.1	383.4
170°	379.6	380.3	381.1	381.5	382.4	383.0	383.5	383.7	384.1	384.2	384.6
172.5°	380.9	381.7	382.3	383.1	383.7	384.4	385.0	385.3	385.3	385.3	385.2
175°	382.4	383.1	383.5	384.1	384.5	385.1	385.6	385.5	385.6	385.5	385.5
177.5°	385.9	386.6	387.1	387.5	388.2	388.5	389.1	388.6	388.5	388.1	387.7
180°	384.3	384.3	384.3	384.3	384.3	384.3	384.3	384.3	384.3	384.3	384.3



TEST NUMBER: P1444477
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CANDELA DISTRIBUTION (continued):

	192.5°	195°	197.5°	200°	202.5°	205°	207.5°	210°	212.5°	215°	217.5°
0°	38337.2	38337.2	38337.2	38337.2	38337.2	38337.2	38337.2	38337.2	38337.2	38337.2	38337.2
2.5°	38265.5	38284.7	38314.0	38340.5	38380.5	38412.0	38459.3	38495.3	38548.7	38583.4	38641.5
5°	38269.0	38343.8	38442.3	38538.4	38653.9	38758.7	38889.0	39000.0	39130.9	39237.8	39371.7
7.5°	38323.1	38467.4	38640.5	38814.8	39012.1	39196.5	39404.3	39592.4	39798.0	39972.1	40162.1
10°	38363.0	38585.7	38840.7	39097.3	39367.3	39618.3	39871.7	40090.6	40295.2	40463.6	40612.3
12.5°	38308.9	38615.6	38942.8	39258.9	39559.2	39818.9	40036.9	40205.2	40321.5	40400.3	40418.8
15°	38124.9	38494.0	38849.8	39164.5	39413.7	39605.9	39705.4	39752.0	39702.0	39619.0	39436.6
17.5°	37781.2	38170.5	38488.6	38736.8	38868.5	38920.7	38838.3	38694.9	38414.7	38103.7	37654.6
20°	37151.0	37513.8	37744.5	37879.9	37844.7	37714.4	37403.3	37025.0	36465.6	35869.5	35082.7
22.5°	36045.8	36362.9	36485.8	36495.9	36280.9	35954.7	35393.5	34744.8	33862.3	32944.8	31816.5
25°	34386.7	34664.5	34683.9	34574.8	34181.3	33652.7	32828.6	31911.0	30711.8	29489.3	28075.4
27.5°	32136.7	32403.1	32337.9	32134.3	31588.1	30880.7	29825.6	28640.1	27161.7	25717.8	24153.8
30°	29308.2	29593.2	29516.5	29255.4	28605.8	27769.7	26528.2	25150.8	23509.4	21967.3	20382.4
32.5°	25923.4	26283.6	26230.8	25982.5	25304.6	24409.8	23062.8	21601.9	19922.6	18402.9	16861.1
35°	22076.2	22513.4	22536.1	22373.8	21744.5	20860.0	19529.9	18115.9	16507.3	15073.5	13649.3
37.5°	17931.1	18438.1	18542.2	18498.5	17976.9	17196.2	15984.2	14715.7	13290.8	12034.1	10816.0
40°	13763.2	14276.4	14454.4	14507.3	14122.4	13517.6	12523.0	11499.1	10337.4	9319.1	8352.0
42.5°	9962.2	10417.1	10589.2	10697.5	10457.2	10054.0	9328.4	8584.8	7733.8	6999.4	6295.2
45°	6919.0	7240.8	7371.6	7480.7	7349.8	7122.3	6664.0	6199.0	5637.2	5157.3	4702.9
47.5°	4837.4	5015.0	5101.3	5154.1	5103.5	4984.8	4735.4	4466.0	4149.0	3868.5	3598.8
50°	3585.6	3680.0	3725.3	3755.8	3718.8	3652.9	3518.0	3371.3	3197.2	3038.3	2883.0
52.5°	2841.5	2895.6	2922.5	2938.9	2917.8	2877.5	2798.9	2712.0	2607.5	2509.3	2457.7
55°	2393.8	2390.9	2453.1	2423.1	2453.1	2386.2	2372.0	2276.5	2189.7	2128.7	2062.6
57.5°	1974.1	2002.2	2014.1	2027.5	2018.9	2006.6	1973.3	1939.0	1893.3	1855.1	1814.2
60°	1708.8	1732.0	1745.1	1758.3	1757.5	1752.9	1733.6	1713.1	1684.5	1661.6	1636.9
62.5°	1526.1	1546.1	1559.1	1571.7	1572.8	1571.0	1556.3	1542.2	1522.7	1508.4	1491.3
65°	1382.3	1396.4	1405.2	1415.3	1414.7	1412.0	1398.8	1387.0	1371.0	1361.0	1348.5
67.5°	1231.9	1242.5	1249.3	1258.8	1260.7	1261.3	1254.0	1248.4	1240.7	1237.9	1233.6
70°	1124.9	1137.8	1148.8	1160.8	1167.3	1170.5	1167.3	1164.5	1159.9	1158.0	1154.7
72.5°	1043.9	1054.8	1063.4	1074.3	1080.4	1084.8	1082.4	1080.8	1076.8	1076.3	1074.0
75°	943.3	950.9	955.6	963.9	967.2	971.3	969.4	970.4	969.1	972.3	972.1
77.5°	822.3	828.0	830.2	836.1	836.8	841.7	842.9	848.7	852.8	861.9	866.7
80°	686.2	689.8	689.8	695.9	698.6	707.0	711.0	720.5	724.9	733.0	733.7
82.5°	533.1	529.0	533.1	530.6	538.3	547.7	549.0	557.1	558.9	564.1	560.1
85°	364.5	364.2	360.9	361.5	359.0	360.2	358.8	360.4	358.9	359.0	355.4
87.5°	174.6	176.2	172.4	173.7	169.9	171.6	168.3	170.9	167.1	167.7	162.0
90°	34.3	35.0	35.4	36.3	37.5	39.6	42.0	44.2	47.0	49.3	51.8
92.5°	35.2	36.6	37.9	39.2	40.5	44.3	48.1	51.9	55.7	59.5	63.2
95°	40.3	41.4	42.5	43.9	45.1	50.6	56.0	61.5	67.1	72.5	78.0
97.5°	45.7	46.4	47.1	47.8	48.6	55.1	61.5	68.0	74.5	80.9	87.3
100°	52.5	53.4	54.2	55.3	56.1	71.0	85.9	100.9	115.8	130.5	145.4
102.5°	84.7	89.8	95.1	100.5	105.8	141.9	178.1	214.2	250.1	286.2	322.2
105°	190.2	207.8	225.7	243.2	260.8	315.5	370.2	425.0	479.4	533.9	588.6
107.5°	382.4	413.3	444.4	475.4	506.3	557.8	609.0	660.5	712.0	763.2	814.4
110°	584.8	611.2	638.2	665.0	691.7	732.3	773.3	813.9	854.7	895.4	936.1



TEST NUMBER: P1444477
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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°	703.7	719.9	736.3	752.3	768.6	798.4	828.5	858.2	888.3	917.8	947.7
115°	736.2	744.4	753.1	761.5	770.3	788.2	806.0	824.1	842.1	859.8	877.8
117.5°	717.5	720.5	723.7	726.3	729.4	738.6	747.7	756.8	765.9	775.1	784.1
120°	669.2	668.8	668.5	668.0	667.7	670.2	673.1	675.7	678.5	681.0	683.5
122.5°	614.6	612.2	610.1	607.7	605.4	604.0	602.9	601.5	600.4	599.0	597.7
125°	563.2	560.7	558.6	555.9	553.5	550.6	547.9	544.8	541.9	538.9	536.0
127.5°	520.0	517.6	515.8	513.3	511.1	507.6	504.4	501.0	498.0	494.4	491.2
130°	484.6	482.9	481.5	479.3	477.7	474.5	471.8	468.7	465.7	462.8	459.8
132.5°	460.0	458.8	457.6	455.9	454.7	451.9	449.4	446.4	443.8	441.0	438.5
135°	441.7	440.7	440.1	438.9	438.0	435.6	433.6	431.4	429.2	427.1	425.0
137.5°	427.0	426.4	426.0	425.5	424.8	422.8	421.1	419.2	417.5	415.5	413.8
140°	418.3	418.0	417.6	417.0	416.5	414.5	412.7	410.7	408.9	406.8	405.0
142.5°	408.9	408.6	408.3	407.7	407.4	405.7	404.4	402.9	401.3	399.8	398.3
145°	402.5	402.3	402.4	401.9	401.9	400.1	398.6	396.7	395.3	393.4	391.9
147.5°	396.2	396.1	396.2	396.1	396.2	394.6	393.5	392.0	390.9	389.3	388.2
150°	391.9	391.9	391.9	391.6	391.5	390.0	388.9	387.5	386.4	384.8	383.8
152.5°	387.7	387.9	388.0	388.1	388.2	386.9	385.6	384.2	382.9	381.5	380.3
155°	384.6	384.7	384.9	384.9	384.9	383.8	382.6	381.3	380.2	379.0	377.9
157.5°	382.3	382.6	382.8	383.0	383.1	382.1	381.1	380.1	379.2	378.1	377.1
160°	381.3	381.7	382.0	382.2	382.5	381.6	381.1	379.9	379.4	378.2	377.2
162.5°	381.8	382.2	382.5	382.6	382.9	382.1	381.5	380.7	379.8	378.7	377.9
165°	381.3	381.4	381.6	381.7	381.8	381.2	380.8	380.2	379.6	379.0	378.4
167.5°	383.7	383.7	384.0	384.1	384.1	383.8	383.7	383.2	382.7	382.4	381.9
170°	384.7	384.9	385.0	385.0	385.1	384.7	384.4	384.1	383.9	383.2	382.7
172.5°	385.3	385.2	385.2	385.2	385.0	384.7	384.6	384.3	384.1	383.9	383.6
175°	385.4	385.2	385.2	385.1	384.9	384.9	384.8	384.7	384.6	384.4	384.3
177.5°	387.5	387.3	386.9	386.6	386.3	386.2	386.1	386.0	386.1	386.0	385.8
180°	384.3	384.3	384.3	384.3	384.3	384.3	384.3	384.3	384.3	384.3	384.3



TEST NUMBER: P1444477
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CANDELA DISTRIBUTION (continued):

	220°	222.5°	225°	227.5°	230°	232.5°	235°	237.5°	240°	242.5°	245°
0°	38337.2	38337.2	38337.2	38337.2	38337.2	38337.2	38337.2	38337.2	38337.2	38337.2	38337.2
2.5°	38677.5	38438.6	38407.0	38423.8	38463.7	38478.5	38521.6	38533.4	38576.7	38587.3	38628.9
5°	39475.5	39159.8	39175.6	39251.5	39366.4	39434.9	39547.8	39607.0	39714.8	39763.8	39861.3
7.5°	40317.1	40069.1	40146.4	40274.5	40431.5	40540.4	40676.1	40764.4	40881.4	40954.0	41047.6
10°	40730.3	40662.3	40747.4	40848.2	40937.8	41008.0	41065.5	41111.6	41141.7	41169.9	41182.3
12.5°	40415.8	40520.9	40535.4	40525.7	40466.2	40421.0	40319.0	40249.8	40126.9	40052.1	39905.9
15°	39250.2	39481.3	39353.3	39159.5	38875.9	38639.5	38305.6	38057.0	37709.3	37473.4	37124.5
17.5°	37204.5	37496.3	37162.7	36714.3	36143.8	35655.7	35048.1	34565.7	33961.4	33522.0	32958.1
20°	34324.6	34597.2	34002.3	33259.0	32376.5	31633.9	30758.1	30059.3	29245.5	28640.1	27909.4
22.5°	30738.9	30933.1	30095.0	29092.9	27968.5	27040.7	25993.7	25155.9	24227.1	23535.0	22756.0
25°	26772.0	26824.3	25819.0	24664.5	23411.4	22368.7	21250.7	20370.0	19422.8	18721.3	17956.7
27.5°	22768.1	22691.2	21604.5	20380.3	19062.3	17978.5	16888.1	16062.8	15233.2	14601.3	13942.6
30°	18989.0	18802.8	17674.6	16416.3	15136.8	14165.5	13260.2	12597.4	11937.4	11436.2	10907.5
32.5°	15523.4	15260.9	14162.6	12983.7	11905.7	11156.0	10484.8	9983.3	9450.3	9026.9	8583.2
35°	12453.9	12174.1	11201.2	10201.8	9385.8	8833.3	8305.7	7894.2	7441.7	7084.5	6699.2
37.5°	9819.6	9590.2	8775.3	7988.8	7371.6	6943.4	6511.2	6174.9	5800.9	5643.8	5232.0
40°	7580.7	7420.4	6783.2	6203.4	5740.0	5538.8	5100.0	4785.9	4506.4	4276.0	4052.8
42.5°	5913.1	5856.3	5236.1	4784.1	4457.7	4204.2	3959.7	3761.2	3567.9	3409.2	3259.1
45°	4339.3	4294.4	4019.0	3758.1	3535.7	3358.6	3193.3	3056.8	2930.4	2825.8	2730.5
47.5°	3379.0	3364.7	3206.1	3044.2	2904.2	2790.4	2683.1	2592.4	2508.6	2438.7	2416.0
50°	2748.3	2746.4	2653.4	2553.5	2453.8	2388.0	2319.5	2265.9	2212.0	2170.2	2125.9
52.5°	2335.1	2325.0	2262.2	2200.6	2141.3	2098.1	2054.4	2020.1	1984.4	1958.6	1931.0
55°	2010.4	2020.9	1984.6	1947.8	1910.7	1883.9	1853.2	1830.6	1806.2	1789.8	1773.2
57.5°	1784.7	1798.8	1779.7	1758.9	1736.3	1718.6	1697.4	1681.9	1665.5	1655.1	1645.4
60°	1620.6	1636.0	1628.3	1617.8	1603.8	1593.3	1579.9	1571.1	1560.7	1554.8	1549.4
62.5°	1481.3	1500.5	1497.8	1492.8	1483.9	1478.0	1470.7	1466.9	1459.9	1457.3	1454.8
65°	1342.4	1363.9	1363.6	1361.1	1356.2	1354.5	1349.9	1349.0	1345.5	1346.9	1346.6
67.5°	1233.1	1251.9	1256.0	1259.0	1258.8	1260.0	1259.6	1261.4	1261.4	1264.1	1265.8
70°	1154.3	1167.3	1170.5	1173.6	1174.4	1177.0	1177.0	1178.6	1178.1	1180.4	1180.7
72.5°	1074.6	1091.7	1094.9	1097.4	1097.4	1099.9	1098.6	1098.2	1094.7	1094.1	1091.6
75°	975.4	997.4	1002.3	1005.4	1005.8	1007.9	1004.9	1003.1	997.4	995.2	991.1
77.5°	871.8	894.7	898.1	899.2	897.4	897.8	891.6	887.3	880.0	877.0	873.2
80°	737.0	770.6	773.3	771.2	765.9	765.1	759.0	755.0	746.4	743.4	740.1
82.5°	560.8	600.3	605.9	608.3	604.0	605.0	599.1	596.9	588.9	587.5	582.3
85°	354.1	393.6	400.1	399.1	394.8	393.9	390.4	391.5	390.9	393.0	394.2
87.5°	162.7	200.9	210.1	207.2	206.7	204.0	197.9	200.2	203.9	206.3	206.5
90°	54.1	68.1	70.2	69.2	64.5	63.0	58.6	57.7	53.9	52.9	49.3
92.5°	67.1	70.8	74.7	71.3	67.9	64.5	61.2	57.5	54.3	50.8	47.6
95°	83.6	88.7	94.2	89.7	85.1	80.6	76.1	71.5	67.0	62.5	58.0
97.5°	93.8	99.9	106.2	101.7	97.2	92.6	88.1	83.6	79.2	74.5	70.0
100°	160.4	174.7	189.4	176.6	163.7	150.9	138.1	125.1	112.3	99.5	86.6
102.5°	358.2	394.0	429.9	397.4	364.8	332.3	300.0	267.5	235.2	202.6	170.2
105°	643.1	697.2	751.6	701.8	652.3	602.8	553.3	503.7	454.2	404.6	355.2
107.5°	865.7	916.0	967.0	922.1	877.2	832.5	787.5	742.6	697.8	652.9	608.2
110°	976.6	1016.0	1056.4	1026.1	995.9	965.6	935.5	905.1	875.1	845.1	814.9



TEST NUMBER: P1444477
 CATALOG NUMBER: EHBR1-48-UNV-TA-L830-UPL24

CANDELA DISTRIBUTION (continued):

	220°	222.5°	225°	227.5°	230°	232.5°	235°	237.5°	240°	242.5°	245°
112.5°	977.3	1005.5	1034.7	1016.6	998.9	981.1	963.3	945.4	927.8	910.0	892.6
115°	895.5	911.3	928.6	921.1	913.9	906.6	899.3	892.2	885.0	877.8	871.0
117.5°	793.1	799.7	808.0	806.1	804.6	802.8	801.2	799.5	798.1	796.6	795.2
120°	686.0	686.0	687.8	688.1	688.7	688.9	689.5	689.9	690.4	691.0	691.7
122.5°	596.3	592.1	589.8	590.1	590.3	590.5	590.9	591.3	591.6	592.1	592.7
125°	533.0	526.8	522.8	521.0	519.3	517.4	515.6	513.8	512.2	510.5	508.9
127.5°	487.7	481.0	476.8	473.3	469.9	466.4	463.0	459.5	456.3	452.7	449.6
130°	456.9	450.3	446.2	442.0	438.1	433.7	429.8	425.5	421.3	417.2	413.2
132.5°	435.6	428.9	425.3	421.2	417.5	413.3	409.4	405.2	401.3	397.0	393.2
135°	422.7	416.5	413.4	409.5	406.2	402.3	398.7	394.8	391.4	387.3	384.1
137.5°	411.9	405.6	402.9	399.8	397.0	393.8	391.1	387.8	384.8	381.4	378.6
140°	403.1	396.5	393.7	391.8	390.1	388.0	386.2	384.2	382.4	380.4	378.4
142.5°	396.8	390.3	387.8	386.5	385.5	384.0	383.0	381.5	380.3	378.6	377.4
145°	390.3	383.3	380.6	380.0	379.8	379.4	379.0	378.5	378.1	377.6	377.1
147.5°	386.6	379.4	376.7	376.7	376.7	376.5	376.6	376.3	376.4	376.2	376.1
150°	382.2	373.9	370.8	371.1	371.2	371.5	371.8	371.9	372.3	372.4	372.7
152.5°	378.7	368.9	365.4	365.7	366.3	366.3	366.8	367.2	367.8	368.2	368.6
155°	376.3	365.7	361.9	361.7	361.9	361.9	362.1	362.4	362.7	363.0	363.3
157.5°	375.7	364.6	360.8	360.4	360.4	360.4	360.4	360.6	360.7	360.9	361.3
160°	376.3	365.0	361.4	360.9	360.9	360.7	360.6	360.5	360.7	360.8	361.2
162.5°	376.7	365.8	362.2	361.8	361.6	361.4	361.4	361.1	361.3	361.2	361.6
165°	377.6	367.9	364.7	364.4	364.4	364.2	364.2	364.2	364.4	364.5	364.8
167.5°	381.2	372.5	370.0	369.5	369.2	368.7	368.7	368.1	368.1	367.8	367.8
170°	382.2	375.3	373.1	372.9	373.1	372.9	372.8	372.8	372.8	372.6	372.8
172.5°	383.2	378.2	376.6	376.7	376.9	377.1	377.4	377.5	377.8	378.1	378.3
175°	384.1	381.2	380.5	380.4	380.5	380.7	380.8	381.0	381.1	381.2	381.6
177.5°	385.9	385.0	384.6	384.6	384.6	384.6	384.6	384.6	384.6	384.8	384.8
180°	384.3	384.3	384.3	384.3	384.3	384.3	384.3	384.3	384.3	384.3	384.3



TEST NUMBER: P1444477
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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°	38337.2	38337.2	38337.2	38337.2	38337.2	38337.2	38337.2	38337.2	38337.2	38337.2	38337.2
2.5°	38636.8	38681.9	38678.4	38720.5	38718.4	38758.0	38750.1	38784.2	38776.5	38805.7	38788.6
5°	39904.2	39989.9	40018.1	40095.4	40111.5	40180.7	40182.1	40237.1	40230.4	40273.4	40250.6
7.5°	41103.1	41183.1	41221.0	41281.0	41311.1	41360.8	41380.2	41421.2	41431.0	41455.2	41454.4
10°	41204.2	41203.9	41222.7	41214.3	41231.1	41221.4	41241.9	41234.5	41264.7	41257.0	41279.8
12.5°	39842.8	39707.7	39658.4	39537.0	39510.5	39406.3	39413.7	39346.9	39379.1	39338.1	39408.0
15°	36916.9	36603.5	36448.6	36176.1	36090.5	35875.1	35857.7	35714.6	35753.2	35678.4	35787.8
17.5°	32593.2	32099.7	31828.9	31431.0	31273.0	30968.3	30907.3	30723.1	30751.7	30658.9	30791.0
20°	27438.2	26841.9	26500.2	26040.1	25834.8	25471.6	25375.3	25169.3	25195.1	25102.8	25252.3
22.5°	22224.4	21600.1	21214.6	20732.2	20470.1	20128.5	20026.0	19819.0	19830.8	19744.1	19887.9
25°	17433.0	16834.6	16460.3	16022.1	15794.7	15481.5	15373.8	15188.0	15198.5	15127.0	15256.1
27.5°	13485.7	12994.7	12681.5	12314.3	12110.3	11852.9	11747.9	11591.6	11591.2	11538.8	11646.6
30°	10538.3	10128.6	9847.4	9527.6	9336.1	9103.8	9002.3	8862.5	8856.4	8819.2	8904.8
32.5°	8251.3	7886.8	7630.3	7348.9	7177.0	6977.6	6881.6	6769.2	6759.0	6725.3	6795.6
35°	6414.3	6107.4	5886.8	5649.9	5667.4	5373.2	5422.1	5193.7	5131.8	5118.2	5170.5
37.5°	4957.5	4719.8	4540.7	4363.2	4243.0	4118.7	4051.7	3991.7	3984.9	3979.0	4015.7
40°	3880.4	3714.1	3583.8	3462.0	3379.3	3303.4	3261.5	3228.6	3220.7	3216.3	3238.5
42.5°	3140.6	3028.4	2944.4	2870.1	2819.8	2778.6	2755.5	2737.3	2731.1	2731.3	2744.3
45°	2653.4	2585.3	2531.2	2485.0	2452.9	2467.0	2425.5	2447.2	2418.5	2448.2	2428.6
47.5°	2336.7	2278.7	2245.2	2212.5	2193.0	2177.4	2177.9	2178.2	2184.4	2185.3	2191.7
50°	2092.3	2058.8	2035.5	2014.6	2004.5	1996.2	1999.1	2001.2	2007.2	2007.6	2012.3
52.5°	1911.4	1889.4	1875.4	1862.4	1857.9	1853.2	1855.2	1854.3	1857.0	1855.6	1859.5
55°	1764.2	1753.9	1749.5	1744.6	1745.4	1744.1	1744.9	1740.2	1737.4	1733.8	1737.1
57.5°	1643.5	1642.1	1645.0	1647.0	1652.5	1654.5	1655.8	1650.4	1645.3	1640.6	1643.4
60°	1550.4	1552.7	1560.1	1566.0	1574.0	1577.7	1579.9	1576.9	1573.1	1569.3	1571.6
62.5°	1458.6	1462.2	1471.0	1477.7	1487.3	1492.3	1497.8	1498.1	1499.6	1498.1	1499.7
65°	1352.0	1356.4	1364.4	1369.9	1378.9	1383.3	1389.0	1390.0	1393.1	1392.4	1395.1
67.5°	1271.0	1275.0	1281.7	1286.9	1294.9	1299.5	1304.5	1304.7	1305.9	1305.6	1308.1
70°	1184.7	1186.6	1192.6	1197.0	1205.0	1209.7	1215.4	1217.1	1220.6	1221.2	1224.0
72.5°	1092.6	1091.7	1095.3	1097.3	1103.3	1107.0	1114.2	1118.1	1124.1	1125.7	1127.9
75°	992.3	991.4	995.7	997.4	1002.6	1006.2	1014.4	1019.6	1028.8	1032.6	1031.7
77.5°	876.2	878.2	886.1	890.5	897.4	902.1	912.6	921.0	937.9	945.2	937.7
80°	746.4	748.5	756.8	760.9	769.8	775.5	787.3	797.0	812.3	815.6	811.3
82.5°	586.8	587.4	594.7	597.9	609.5	617.9	632.8	640.6	650.0	648.6	647.5
85°	400.1	405.5	414.8	424.0	438.2	451.8	465.9	477.5	469.3	482.2	467.7
87.5°	213.9	213.3	225.7	223.8	243.6	255.2	267.4	273.2	279.8	278.5	278.6
90°	48.8	46.2	46.6	43.7	45.1	41.9	44.2	41.3	44.4	40.7	46.7
92.5°	44.0	42.4	40.4	38.8	36.7	35.1	33.1	31.3	29.4	27.6	29.4
95°	53.5	51.8	50.1	48.3	46.6	45.0	43.3	41.6	39.9	38.2	40.4
97.5°	65.5	64.4	63.5	62.5	61.5	60.5	59.6	58.5	57.5	56.5	57.9
100°	73.8	73.8	73.8	73.8	73.5	73.5	73.5	73.5	73.5	73.5	74.7
102.5°	137.7	134.4	131.2	127.8	124.6	121.3	118.1	114.8	111.7	108.4	113.2
105°	305.6	293.0	280.3	267.5	254.7	242.0	229.4	216.7	204.0	191.4	204.5
107.5°	563.6	540.4	517.3	494.1	470.9	447.8	424.8	401.7	378.6	355.6	376.3
110°	784.9	760.3	735.6	711.1	686.6	661.9	637.4	613.0	588.4	564.0	583.7



TEST NUMBER: P1444477
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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°	875.0	858.8	842.9	826.9	811.0	795.3	779.4	763.6	747.9	732.1	741.7
115°	863.7	856.1	848.4	840.8	833.2	825.4	817.9	810.4	803.0	795.5	796.1
117.5°	793.7	790.9	788.2	785.5	782.9	780.3	777.8	775.4	772.9	770.6	765.3
120°	692.5	693.0	693.4	694.1	694.8	695.7	696.2	697.2	698.1	699.2	691.9
122.5°	593.2	594.5	596.1	597.7	599.5	601.3	603.1	605.2	607.4	609.4	602.2
125°	507.2	508.7	510.0	511.6	512.9	515.0	516.8	518.9	520.8	523.2	517.1
127.5°	446.3	446.5	446.4	446.9	447.2	447.9	448.6	449.4	450.4	451.6	447.7
130°	409.1	407.9	406.6	405.7	404.5	403.9	403.3	402.8	402.4	402.2	400.6
132.5°	389.1	387.0	384.9	382.9	381.1	379.6	377.9	376.7	375.4	374.5	374.0
135°	380.0	377.3	374.7	372.2	369.6	367.7	365.3	363.6	361.9	360.3	360.8
137.5°	375.4	372.9	370.1	367.8	365.2	363.3	360.9	359.1	357.4	355.9	356.7
140°	376.4	373.7	371.0	368.7	366.4	364.3	362.2	360.5	358.5	357.3	357.7
142.5°	375.9	373.8	371.2	369.2	366.9	365.1	363.3	361.8	359.9	358.8	359.3
145°	376.6	374.9	373.0	371.3	369.8	368.5	366.8	365.9	364.8	364.0	364.4
147.5°	375.8	374.7	373.2	372.1	370.7	369.7	368.6	367.8	367.0	366.4	366.6
150°	372.9	372.2	371.2	370.5	369.6	369.1	368.4	367.9	367.4	367.1	367.2
152.5°	369.1	368.5	367.6	367.0	366.3	365.9	365.3	365.1	364.7	364.4	364.5
155°	363.6	363.3	363.1	363.0	362.7	362.8	362.5	362.7	362.5	362.7	362.8
157.5°	361.5	361.6	361.5	361.7	361.8	361.9	361.9	362.3	362.3	362.7	363.0
160°	361.6	361.6	361.5	361.6	361.6	361.6	361.8	361.9	362.0	362.1	362.6
162.5°	361.7	362.0	362.2	362.5	362.9	363.2	363.6	364.2	364.5	365.0	365.5
165°	365.0	365.1	365.0	365.1	365.3	365.5	365.6	366.2	366.3	366.7	367.2
167.5°	367.8	367.9	368.0	368.2	368.6	369.0	369.3	369.8	370.3	370.9	371.4
170°	372.6	372.6	372.6	372.6	372.6	372.9	373.1	373.2	373.4	373.7	374.1
172.5°	378.4	378.4	378.1	378.4	378.1	378.4	378.4	378.6	378.6	378.8	379.0
175°	381.5	381.9	382.1	382.4	382.4	382.5	382.6	382.7	382.9	383.2	383.2
177.5°	384.8	384.9	384.9	384.9	384.9	385.1	385.1	385.1	385.1	384.9	385.0
180°	384.3	384.3	384.3	384.3	384.3	384.3	384.3	384.3	384.3	384.3	384.3



TEST NUMBER: P1444477
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CANDELA DISTRIBUTION (continued):

	275°	277.5°	280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°
0°	38337.2	38337.2	38337.2	38337.2	38337.2	38337.2	38337.2	38337.2	38337.2	38337.2	38337.2
2.5°	38817.1	38797.6	38817.5	38797.4	38817.5	38793.3	38809.7	38783.6	38790.2	38763.1	38770.1
5°	40284.9	40253.8	40270.3	40230.1	40234.4	40180.7	40179.7	40117.2	40100.7	40029.5	39998.2
7.5°	41471.7	41461.5	41467.3	41441.3	41438.4	41401.7	41384.3	41332.6	41300.0	41234.5	41189.7
10°	41283.8	41314.0	41321.9	41352.7	41359.1	41389.6	41396.1	41426.6	41433.0	41455.5	41455.8
12.5°	39404.7	39507.5	39532.0	39658.9	39712.3	39857.5	39935.5	40095.4	40190.4	40350.0	40448.0
15°	35784.8	35962.5	36033.4	36281.3	36418.3	36707.6	36889.4	37221.5	37456.0	37808.8	38060.4
17.5°	30802.6	31051.1	31163.2	31499.2	31718.4	32145.3	32453.1	32959.6	33347.4	33910.3	34356.4
20°	25277.8	25553.9	25706.0	26089.4	26348.1	26847.0	27231.2	27853.6	28372.6	29085.9	29695.8
22.5°	19933.0	20195.7	20364.6	20754.7	21045.9	21566.2	21995.6	22652.5	23234.1	24037.8	24769.2
25°	15304.8	15545.5	15698.2	16051.0	16324.5	16802.6	17212.7	17844.5	18413.5	19219.8	19969.6
27.5°	11700.3	11901.9	12049.2	12349.9	12591.1	12996.6	13348.9	13871.1	14361.3	15058.8	15726.6
30°	8957.6	9136.3	9279.5	9541.5	9765.2	10116.6	10426.4	10865.0	11270.8	11825.8	12357.1
32.5°	6845.1	6999.0	7126.6	7355.9	7558.8	7875.3	8154.3	8538.9	8887.1	9357.8	9794.9
35°	5219.1	5521.9	5500.4	5816.7	5867.5	6094.8	6343.7	6679.9	6988.3	7388.6	7760.5
37.5°	4050.9	4136.0	4227.2	4367.0	4513.9	4720.6	4930.9	5341.7	5492.3	5794.9	6102.8
40°	3266.6	3324.2	3384.4	3478.8	3581.8	3727.4	3880.5	4076.5	4277.2	4522.4	4773.0
42.5°	2761.6	2794.2	2832.5	2888.1	2951.5	3043.8	3146.3	3279.1	3418.8	3591.4	3767.6
45°	2467.4	2451.9	2463.3	2493.1	2531.4	2587.5	2652.1	2734.3	2825.3	2937.1	3056.2
47.5°	2193.0	2199.3	2202.7	2218.9	2239.4	2277.0	2316.2	2372.0	2479.9	2512.7	2577.6
50°	2011.9	2014.9	2013.8	2022.1	2032.5	2056.9	2082.4	2120.1	2157.9	2207.9	2255.7
52.5°	1860.0	1864.2	1863.7	1869.1	1874.6	1890.1	1906.2	1932.9	1957.6	1989.5	2016.8
55°	1740.1	1745.9	1748.2	1752.8	1755.4	1763.5	1769.9	1782.7	1793.2	1811.2	1827.9
57.5°	1647.9	1655.8	1659.5	1661.1	1657.8	1657.4	1655.3	1658.0	1660.1	1669.8	1679.1
60°	1575.3	1581.6	1582.7	1581.6	1575.7	1571.4	1564.6	1562.4	1561.3	1566.0	1571.1
62.5°	1499.3	1501.5	1500.0	1498.1	1491.3	1487.2	1480.1	1477.5	1475.1	1478.4	1481.0
65°	1394.1	1396.1	1394.1	1393.0	1386.9	1383.6	1377.6	1375.7	1372.2	1373.1	1372.5
67.5°	1308.7	1310.7	1309.1	1307.6	1303.3	1301.4	1297.0	1294.1	1289.9	1288.4	1285.5
70°	1223.6	1225.2	1222.8	1221.2	1216.4	1214.5	1210.4	1209.6	1206.3	1205.5	1202.3
72.5°	1125.7	1125.8	1122.5	1121.4	1117.9	1117.8	1116.1	1117.6	1117.5	1119.2	1118.4
75°	1025.5	1024.1	1019.9	1019.1	1016.4	1017.7	1015.9	1018.3	1018.6	1022.3	1022.7
77.5°	925.3	919.9	911.9	908.0	902.6	902.0	898.8	900.9	900.3	904.5	906.2
80°	798.5	792.1	781.8	776.7	770.3	769.4	766.5	769.4	767.9	773.0	776.4
82.5°	637.5	632.0	621.2	617.2	609.8	610.5	607.4	610.5	610.1	617.5	621.8
85°	471.5	467.9	456.8	447.0	436.0	429.7	423.4	422.3	420.4	423.4	425.9
87.5°	272.4	268.9	260.3	254.6	235.4	236.2	228.7	228.4	226.5	224.8	228.7
90°	45.4	50.6	49.6	54.2	53.8	59.1	59.1	64.3	63.5	68.5	68.7
92.5°	31.3	33.1	34.9	36.7	38.6	40.4	42.2	44.0	48.0	51.6	55.8
95°	42.4	44.6	46.6	48.8	50.9	53.0	55.1	57.2	63.0	68.8	74.6
97.5°	59.4	60.7	62.1	63.5	64.9	66.3	67.7	69.1	75.4	81.6	87.8
100°	75.8	76.9	78.0	79.2	80.3	81.4	82.5	83.6	95.9	107.8	119.8
102.5°	117.9	122.7	127.5	132.3	137.2	142.0	146.8	151.6	179.2	206.6	234.1
105°	217.5	230.6	243.9	256.9	270.1	283.2	296.3	309.4	353.5	397.4	441.6
107.5°	397.0	417.6	438.3	459.2	479.9	500.6	521.3	542.2	585.0	628.1	671.0
110°	603.4	623.3	643.0	662.8	682.5	702.3	722.2	742.2	768.0	793.8	819.7



TEST NUMBER: P1444477
 CATALOG NUMBER: EHBR1-48-UNV-TA-L830-UPL24

CANDELA DISTRIBUTION (continued):

	275°	277.5°	280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°
112.5°	751.3	760.9	770.6	780.4	790.1	799.9	809.7	819.5	832.5	845.5	858.7
115°	796.8	797.3	798.2	798.9	799.8	800.4	801.5	802.4	806.8	811.0	815.4
117.5°	760.0	754.9	749.8	744.5	739.4	734.7	729.8	725.0	724.5	723.9	723.6
120°	685.3	678.2	671.3	664.3	657.8	650.9	644.5	638.0	634.9	631.9	628.9
122.5°	595.4	588.4	581.7	575.0	568.4	561.9	555.7	549.3	547.2	545.4	543.5
125°	511.3	505.6	500.1	494.6	489.4	484.2	479.2	474.1	474.4	474.8	475.5
127.5°	444.4	441.0	437.8	434.6	431.9	428.9	426.3	423.5	425.7	427.9	430.1
130°	399.3	398.0	397.1	395.8	395.3	394.4	393.8	393.0	396.5	399.7	403.2
132.5°	374.2	374.2	374.5	374.8	375.3	375.9	376.7	377.4	381.1	384.8	388.6
135°	361.5	362.1	363.3	364.2	365.7	366.8	368.4	369.6	373.5	376.8	380.6
137.5°	357.7	358.7	360.0	361.2	363.0	364.4	366.3	367.8	370.7	373.7	376.7
140°	358.7	359.4	360.6	361.8	363.1	364.4	366.1	367.3	370.0	372.2	374.6
142.5°	360.4	360.9	362.0	363.2	364.5	365.6	367.0	368.1	370.1	371.8	374.0
145°	365.0	365.6	366.5	367.3	368.3	369.3	370.4	371.4	372.8	374.0	375.3
147.5°	367.2	367.6	368.3	369.1	369.9	370.6	371.3	372.0	373.2	374.0	375.1
150°	367.6	367.8	368.2	368.6	369.3	369.9	370.6	371.0	371.8	372.5	373.6
152.5°	364.9	365.1	365.5	365.9	366.3	366.8	367.3	367.8	368.7	369.3	370.1
155°	363.3	363.8	364.4	364.8	365.5	365.8	366.5	366.9	367.7	368.2	369.0
157.5°	363.5	363.8	364.6	364.8	365.6	366.0	366.5	367.0	367.7	368.1	368.7
160°	363.3	364.1	364.6	365.3	366.0	366.6	367.3	368.0	368.6	369.1	369.6
162.5°	366.1	366.6	367.2	367.6	368.1	368.7	369.2	369.7	370.7	371.0	371.9
165°	367.9	368.5	369.3	369.7	370.7	371.3	372.0	372.6	373.0	373.6	374.0
167.5°	372.1	372.5	373.4	373.9	374.6	375.2	375.9	376.5	377.0	377.3	377.9
170°	374.6	375.2	375.8	376.4	376.9	377.4	378.1	378.5	379.2	379.6	380.3
172.5°	379.4	379.8	380.2	380.5	380.9	381.5	381.9	382.2	382.7	383.2	383.6
175°	383.2	383.2	383.3	383.5	383.6	383.6	383.8	384.1	384.1	384.3	384.4
177.5°	385.2	385.3	385.5	385.5	385.7	385.8	386.0	386.1	386.1	386.1	386.1
180°	384.3	384.3	384.3	384.3	384.3	384.3	384.3	384.3	384.3	384.3	384.3



TEST NUMBER: P1444477
 CATALOG NUMBER: EHBR1-48-UNV-TA-L830-UPL24

CANDELA DISTRIBUTION (continued):

	302.5°	305°	307.5°	310°	312.5°	315°	317.5°	320°	322.5°	325°	327.5°
0°	38337.2	38337.2	38337.2	38337.2	38337.2	38337.2	38337.2	38337.2	38337.2	38337.2	38337.2
2.5°	38742.9	38744.6	38713.3	38711.6	38682.4	38678.7	38650.1	38641.5	38618.4	38609.9	38586.3
5°	39918.4	39880.3	39792.3	39740.6	39653.7	39596.1	39502.0	39440.7	39349.9	39281.4	39190.0
7.5°	41107.2	41048.1	40949.4	40869.4	40748.7	40652.4	40511.3	40395.7	40242.8	40110.4	39949.9
10°	41455.8	41446.7	41421.6	41384.9	41328.8	41265.8	41169.7	41069.5	40935.6	40790.0	40611.6
12.5°	40598.0	40690.6	40816.9	40891.7	40982.9	41022.8	41060.2	41050.8	41026.2	40952.6	40849.4
15°	38424.8	38685.1	39029.8	39296.9	39604.2	39827.5	40074.3	40228.0	40381.2	40452.1	40495.3
17.5°	34967.8	35460.7	36078.7	36590.9	37181.9	37656.5	38176.9	38568.6	38971.4	39260.0	39521.0
20°	30527.3	31241.4	32115.5	32887.8	33785.7	34566.0	35421.1	36123.1	36846.9	37413.1	37948.8
22.5°	25710.9	26559.0	27615.8	28594.7	29752.3	30792.6	31966.3	32987.9	34054.5	34945.6	35807.2
25°	20974.7	21904.7	23060.4	24152.6	25463.5	26673.6	28065.6	29338.8	30717.4	31914.3	33096.7
27.5°	16649.9	17563.0	18742.8	19905.4	21291.7	22581.1	24072.6	25475.3	27045.0	28492.5	29973.4
30°	13095.3	13869.8	14927.6	16053.7	17421.0	18733.1	20240.7	21683.4	23316.4	24896.9	26564.8
32.5°	10375.0	10965.0	11796.6	12748.9	14010.4	15259.5	16695.1	18087.8	19695.8	21292.4	23027.1
35°	8239.7	8699.9	9333.9	10077.0	11145.3	12222.1	13491.8	14758.3	16258.5	17773.6	19459.7
37.5°	6497.4	6870.8	7367.4	7925.6	8782.5	9666.1	10707.3	11757.3	13060.9	14403.9	15931.9
40°	5073.8	5376.1	5762.7	6179.0	6826.1	7506.9	8312.1	9126.4	10173.7	11271.2	12535.9
42.5°	3985.8	4208.9	4482.0	4786.2	5389.9	5751.3	6297.4	6886.3	7656.2	8453.0	9403.8
45°	3200.9	3353.1	3542.5	3746.6	4026.7	4333.4	4707.3	5099.4	5830.9	6189.7	6767.9
47.5°	2673.1	2775.3	2895.7	3024.4	3189.6	3367.9	3589.7	3816.4	4109.7	4413.7	4770.0
50°	2317.6	2421.5	2462.9	2529.5	2625.1	2726.9	2852.0	2977.0	3134.3	3293.7	3477.2
52.5°	2053.8	2087.6	2132.6	2175.0	2234.2	2350.2	2387.7	2453.1	2541.3	2627.6	2723.9
55°	1852.3	1874.4	1903.6	1929.2	1965.0	1999.2	2048.7	2092.1	2151.0	2203.0	2266.9
57.5°	1695.4	1709.5	1729.8	1746.6	1769.8	1789.1	1818.1	1841.7	1875.5	1904.9	1943.7
60°	1581.5	1590.9	1604.5	1615.4	1630.2	1640.4	1654.7	1665.7	1683.6	1698.6	1720.2
62.5°	1488.4	1493.3	1502.2	1508.7	1518.0	1523.1	1530.8	1535.6	1545.4	1553.0	1565.1
65°	1376.8	1377.9	1383.9	1386.6	1394.0	1396.6	1402.9	1405.2	1413.3	1418.8	1429.5
67.5°	1285.3	1282.7	1282.8	1280.8	1281.7	1279.5	1280.2	1277.9	1281.1	1282.8	1291.0
70°	1201.7	1198.1	1197.0	1193.2	1192.1	1188.1	1187.0	1183.4	1183.0	1181.8	1184.7
72.5°	1120.3	1119.4	1119.6	1116.9	1116.7	1113.9	1114.0	1112.3	1114.2	1115.1	1118.7
75°	1026.7	1027.0	1028.8	1026.4	1027.1	1024.9	1025.7	1023.5	1024.7	1024.3	1027.9
77.5°	912.7	915.4	920.4	919.4	921.0	918.4	919.6	916.6	917.4	915.4	916.9
80°	784.6	790.3	797.0	796.7	799.5	797.6	800.2	797.3	798.5	795.1	794.2
82.5°	632.4	637.2	644.4	644.6	650.9	652.0	659.0	658.7	663.1	660.3	658.2
85°	432.4	435.7	441.8	445.3	451.7	455.6	462.4	465.1	460.2	469.0	462.1
87.5°	225.7	234.2	229.5	240.4	237.8	248.9	246.5	256.8	254.8	263.6	262.5
90°	75.1	75.8	82.6	83.7	91.9	94.0	98.4	95.9	100.2	98.0	102.2
92.5°	59.5	63.8	67.7	71.7	75.6	79.7	75.9	72.2	68.6	65.1	61.3
95°	80.3	86.1	91.8	97.6	103.3	109.1	102.9	96.9	90.7	84.5	78.2
97.5°	94.0	100.2	106.4	112.6	119.0	125.1	117.8	110.5	103.2	96.0	88.6
100°	131.8	143.8	155.8	167.8	179.8	191.8	178.3	164.7	151.2	137.5	123.9
102.5°	261.8	289.2	316.7	344.3	371.8	399.3	370.6	341.8	312.9	284.0	255.0
105°	485.5	529.6	573.5	617.7	661.6	706.0	659.1	612.3	565.4	518.7	471.7
107.5°	714.1	756.9	800.1	842.9	886.0	929.2	881.8	834.3	787.0	739.5	691.9
110°	845.8	871.6	897.6	923.7	949.5	975.7	941.1	906.5	872.0	837.3	802.8



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CANDELA DISTRIBUTION (continued):

	302.5°	305°	307.5°	310°	312.5°	315°	317.5°	320°	322.5°	325°	327.5°
112.5°	871.7	885.1	898.0	911.4	924.5	937.7	913.2	888.7	863.9	839.5	814.7
115°	819.9	824.3	828.7	833.3	837.6	842.1	825.6	809.2	792.8	776.3	759.6
117.5°	723.2	723.0	722.6	722.6	722.0	721.7	712.6	703.7	694.6	685.5	676.3
120°	625.8	622.8	619.9	616.9	613.8	610.7	607.2	603.8	600.0	596.3	592.5
122.5°	541.6	539.8	538.0	536.1	534.0	532.1	530.9	530.0	528.7	527.6	526.1
125°	475.9	476.4	476.9	477.3	477.7	478.1	477.6	477.4	477.0	476.8	476.1
127.5°	432.1	434.4	436.3	438.5	440.3	442.4	442.5	443.1	443.2	443.4	443.5
130°	406.3	409.8	412.9	416.0	419.0	422.4	422.2	422.4	422.4	422.5	422.4
132.5°	392.3	395.9	399.5	403.3	406.7	410.2	410.1	410.2	409.8	409.9	409.8
135°	384.1	387.6	390.9	394.5	397.6	401.0	400.7	400.6	400.2	400.3	399.9
137.5°	379.3	382.5	385.1	387.9	390.5	393.3	392.9	392.8	392.4	392.4	392.0
140°	376.9	379.3	381.4	383.8	385.9	388.2	387.6	387.2	386.7	386.2	385.5
142.5°	375.7	377.6	379.2	381.1	382.6	384.5	383.4	382.6	381.7	380.9	379.8
145°	376.7	378.1	379.3	380.5	381.3	382.7	381.4	380.5	379.1	378.1	376.8
147.5°	375.8	376.8	377.4	378.4	378.8	379.8	378.6	377.5	376.4	375.1	373.8
150°	374.1	375.1	375.7	376.4	376.9	377.8	376.4	375.2	373.7	372.4	371.2
152.5°	370.8	371.5	372.2	372.6	373.3	373.7	372.4	371.4	370.0	368.6	367.4
155°	369.3	369.9	370.2	370.7	370.9	371.3	370.0	369.3	368.1	367.0	365.7
157.5°	369.1	369.6	370.1	370.4	370.7	371.1	370.2	369.5	368.5	367.8	366.8
160°	370.0	370.5	370.8	371.1	371.6	371.7	371.0	370.6	369.9	369.1	368.2
162.5°	372.2	373.0	373.4	373.8	374.4	374.9	374.0	373.4	372.4	371.7	370.7
165°	374.4	374.9	375.3	375.7	375.9	376.3	375.8	375.3	374.7	374.2	373.6
167.5°	378.1	378.8	379.1	379.5	379.6	379.9	379.3	379.1	378.3	377.8	377.0
170°	380.7	381.1	381.6	382.0	382.4	382.6	382.3	381.9	381.3	380.9	380.3
172.5°	384.1	384.4	384.6	385.0	385.2	385.5	385.2	384.6	384.1	383.6	383.0
175°	384.4	384.6	384.9	384.9	384.9	385.0	384.6	384.1	383.8	383.3	382.9
177.5°	386.1	386.1	386.1	386.0	386.0	386.0	385.7	385.5	385.2	384.9	384.4
180°	384.3	384.3	384.3	384.3	384.3	384.3	384.3	384.3	384.3	384.3	384.3



TEST NUMBER: P1444477
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CANDELA DISTRIBUTION (continued):

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
0°	38337.2	38337.2	38337.2	38337.2	38337.2	38337.2	38337.2	38337.2	38337.2	38337.2	38337.2
2.5°	38578.0	38561.2	38550.4	38536.7	38528.2	38517.6	38509.8	38503.1	38497.7	38492.7	38489.0
5°	39120.4	39034.2	38967.3	38894.8	38835.3	38775.9	38730.1	38692.2	38666.0	38646.5	38634.8
7.5°	39811.1	39653.2	39512.9	39365.1	39232.6	39102.4	38990.1	38893.4	38820.8	38773.8	38745.2
10°	40427.9	40216.6	40007.6	39787.6	39579.0	39376.8	39190.0	39025.8	38895.8	38809.4	38759.0
12.5°	40704.4	40524.4	40311.0	40072.1	39816.5	39557.9	39305.9	39078.6	38887.7	38759.7	38685.8
15°	40460.9	40387.0	40242.1	40056.8	39814.2	39546.8	39250.9	38972.7	38716.8	38550.8	38454.6
17.5°	39668.8	39771.9	39760.8	39689.9	39515.5	39290.5	38988.9	38676.4	38356.4	38134.5	38013.3
20°	38332.0	38656.3	38820.8	38905.2	38836.7	38690.8	38417.7	38100.5	37727.4	37437.9	37261.2
22.5°	36453.5	37026.0	37382.7	37643.8	37699.2	37649.5	37408.3	37106.7	36690.9	36342.7	36081.7
25°	34035.3	34874.0	35437.9	35879.8	36051.5	36095.8	35890.7	35590.7	35127.1	34721.5	34363.1
27.5°	31187.0	32276.7	33029.6	33623.4	33891.5	34007.8	33818.9	33512.9	32964.5	32480.4	32012.1
30°	27980.3	29273.3	30179.6	30891.7	31218.5	31372.2	31171.5	30830.0	30191.7	29609.2	29019.2
32.5°	24548.2	25963.0	26950.7	27724.1	28047.9	28192.3	27929.9	27546.3	26808.6	26122.4	25434.4
35°	20954.8	22382.9	23378.8	24131.7	24403.0	24490.2	24154.5	23711.1	22893.8	22140.6	21390.5
37.5°	17288.3	18616.9	19522.0	20197.7	20365.6	20380.6	19976.3	19486.5	18627.5	17884.9	17138.1
40°	13653.4	14773.9	15504.7	16045.4	16103.7	16051.7	15612.1	15119.2	14315.6	13650.3	12994.7
42.5°	10229.5	11075.3	11596.7	11967.3	11945.3	11842.5	11439.5	11015.8	10352.8	9846.0	9330.1
45°	7296.2	7853.8	8158.7	8375.6	8306.0	8208.1	7894.4	7597.4	7146.9	6819.5	6472.8
47.5°	5068.8	5734.7	5618.8	6042.7	5677.5	5918.7	5416.3	5139.3	4900.3	4726.4	4530.4
50°	3628.8	3781.4	3855.1	3905.4	3878.7	3841.6	3751.4	3670.7	3561.5	3481.8	3389.1
52.5°	2802.4	2878.7	2920.5	2950.7	2944.8	2931.3	2891.9	2856.0	2804.9	2771.2	2730.5
55°	2373.8	2374.9	2451.7	2418.8	2467.6	2410.4	2432.9	2369.7	2379.9	2325.6	2289.1
57.5°	1972.5	2003.8	2017.9	2031.5	2027.7	2025.3	2010.0	2002.4	1985.2	1979.9	1967.7
60°	1735.1	1751.5	1754.8	1761.1	1755.9	1753.9	1741.9	1737.7	1726.2	1724.0	1716.0
62.5°	1572.3	1580.7	1580.7	1580.7	1573.9	1567.3	1554.1	1547.2	1537.3	1535.2	1530.5
65°	1436.4	1445.2	1446.6	1448.3	1443.4	1438.3	1426.6	1419.1	1409.0	1405.2	1399.8
67.5°	1296.2	1305.5	1308.6	1313.3	1310.5	1309.4	1301.5	1298.5	1291.8	1290.2	1285.3
70°	1186.1	1189.9	1189.6	1189.5	1183.3	1177.7	1168.5	1164.0	1157.1	1155.7	1151.1
72.5°	1120.6	1123.3	1121.6	1119.2	1111.1	1102.9	1092.0	1084.1	1075.0	1069.3	1062.9
75°	1028.4	1032.0	1029.6	1028.1	1020.8	1015.5	1006.8	1002.4	996.0	994.1	989.7
77.5°	915.2	916.9	913.2	912.7	907.2	903.8	897.3	896.1	891.5	891.6	887.3
80°	789.1	788.1	782.2	781.0	775.5	774.1	768.9	769.2	765.6	767.1	764.1
82.5°	649.3	645.8	638.0	635.7	629.3	628.7	625.3	628.2	625.9	629.3	627.3
85°	465.4	466.3	462.9	462.9	461.0	461.6	461.3	463.5	463.8	466.9	466.8
87.5°	259.5	263.1	262.5	265.8	265.7	269.5	270.8	276.5	277.2	282.4	282.4
90°	100.0	104.8	102.5	107.4	106.6	112.3	112.5	118.1	117.6	122.4	120.7
92.5°	57.6	54.0	50.5	46.6	44.8	42.7	41.4	39.1	37.5	35.4	33.5
95°	72.0	65.9	59.7	53.5	51.3	49.2	47.0	45.0	42.8	40.7	38.6
97.5°	81.3	74.0	66.7	59.4	57.5	55.7	53.8	52.0	50.1	48.3	46.5
100°	110.3	96.6	83.2	69.3	67.7	66.2	64.6	63.1	61.5	59.9	58.3
102.5°	226.2	197.3	168.2	139.3	133.8	128.3	122.8	117.1	111.7	106.1	100.6
105°	425.0	378.0	331.1	284.1	269.2	254.3	239.3	224.3	209.4	194.6	179.6
107.5°	644.5	596.8	549.2	501.5	474.2	446.5	419.0	391.2	363.8	336.0	308.5
110°	768.1	733.4	698.7	663.8	641.9	619.7	597.4	575.2	553.1	530.8	508.5



TEST NUMBER: P1444477

CATALOG NUMBER: EHBR1-48-UNV-TA-L830-UPL24

CANDELA DISTRIBUTION (continued):

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
112.5°	789.9	765.2	740.4	715.4	705.5	695.4	685.6	675.5	665.3	655.1	645.1
115°	742.9	726.4	709.7	692.7	689.5	686.0	682.6	678.9	675.6	672.0	668.3
117.5°	667.2	657.9	648.7	639.4	640.1	640.8	641.6	642.2	642.8	643.2	643.7
120°	588.7	584.9	581.3	577.4	580.8	583.9	587.2	590.1	593.3	596.1	599.1
122.5°	525.1	523.7	522.6	521.0	525.1	529.1	532.8	536.6	540.3	543.7	547.2
125°	475.9	475.3	474.9	474.2	478.5	482.4	486.3	490.0	493.8	497.2	500.8
127.5°	443.9	444.0	444.4	444.3	447.6	450.2	453.2	455.7	458.6	460.9	463.3
130°	422.5	422.3	422.5	422.3	425.1	427.8	430.6	432.9	435.5	437.4	439.6
132.5°	409.8	409.5	409.5	409.2	411.6	413.6	415.7	417.2	419.1	420.3	421.7
135°	399.9	399.4	399.3	398.9	400.9	403.0	404.8	406.3	408.0	409.2	410.4
137.5°	391.8	391.5	391.2	390.8	392.7	394.4	396.0	397.5	398.9	400.3	401.2
140°	385.3	384.6	384.3	383.6	385.4	386.9	388.5	389.7	391.1	391.9	392.9
142.5°	379.0	377.9	377.3	376.2	377.5	378.6	379.7	380.8	381.8	382.6	383.1
145°	375.7	374.3	373.4	372.1	373.1	373.9	375.0	375.7	376.4	376.7	377.3
147.5°	372.9	371.5	370.2	369.0	369.9	370.5	371.0	371.5	372.2	372.4	372.7
150°	369.8	368.2	366.8	365.4	366.0	366.4	366.8	367.4	367.8	367.9	368.2
152.5°	365.9	364.6	363.1	361.6	362.0	362.3	362.6	362.7	363.0	363.2	363.3
155°	364.7	363.3	362.1	360.6	361.1	361.2	361.4	361.5	361.5	361.5	361.5
157.5°	365.9	364.6	363.9	362.6	362.7	362.6	362.7	362.2	362.2	361.9	361.7
160°	367.5	366.5	365.7	364.7	364.5	364.4	364.4	364.0	363.8	363.4	363.1
162.5°	369.7	368.7	367.6	366.4	366.3	366.3	366.2	365.7	365.6	365.1	364.8
165°	372.9	372.2	371.4	370.5	370.3	370.0	369.9	369.3	369.1	368.4	368.0
167.5°	376.4	375.6	374.9	373.8	373.8	373.8	373.7	373.4	373.3	372.8	372.7
170°	379.7	379.1	378.5	377.8	377.5	377.4	377.1	376.8	376.4	376.1	375.6
172.5°	382.4	381.8	381.1	380.2	380.2	380.0	379.7	379.6	379.2	378.9	378.8
175°	382.4	382.0	381.2	380.9	380.7	380.6	380.4	380.3	380.0	379.8	379.6
177.5°	384.1	383.9	383.3	383.0	382.9	382.9	382.7	382.6	382.6	382.5	382.4
180°	384.3	384.3	384.3	384.3	384.3	384.3	384.3	384.3	384.3	384.3	384.3



TEST NUMBER: P1444477
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CANDELA DISTRIBUTION (continued):

	357.5°	360°
0°	38337.2	38337.2
2.5°	38485.6	38483.7
5°	38628.7	38626.4
7.5°	38737.5	38736.8
10°	38750.3	38757.0
12.5°	38673.1	38678.4
15°	38447.2	38457.8
17.5°	38015.6	38029.3
20°	37271.9	37286.4
22.5°	36067.7	36073.6
25°	34316.8	34291.9
27.5°	31929.8	31887.1
30°	28895.4	28854.0
32.5°	25277.6	25251.7
35°	21205.0	21188.7
37.5°	16917.4	16884.2
40°	12755.0	12658.1
42.5°	9104.2	8934.1
45°	6291.8	6090.2
47.5°	4392.3	4267.7
50°	3329.3	3289.1
52.5°	2712.8	2703.4
55°	2288.9	2284.8
57.5°	1970.4	1969.0
60°	1720.2	1719.8
62.5°	1533.7	1534.3
65°	1402.3	1402.5
67.5°	1286.6	1285.7
70°	1152.8	1151.9
72.5°	1060.8	1059.2
75°	989.7	988.8
77.5°	888.6	887.1
80°	766.1	764.1
82.5°	630.1	627.9
85°	470.0	470.1
87.5°	287.6	287.5
90°	125.3	122.9
92.5°	32.0	30.4
95°	36.5	34.4
97.5°	44.7	42.8
100°	56.8	55.2
102.5°	95.2	89.6
105°	164.7	149.8
107.5°	280.8	253.3
110°	486.3	464.1



TEST NUMBER: P1444477
CATALOG NUMBER: EHBR1-48-UNV-TA-L830-UPL24

CANDELA DISTRIBUTION (continued):

	357.5°	360°
112.5°	634.9	624.8
115°	664.3	660.7
117.5°	644.1	644.3
120°	601.6	604.5
122.5°	550.2	553.5
125°	503.9	507.0
127.5°	465.3	467.2
130°	440.9	442.8
132.5°	422.6	423.6
135°	411.1	412.0
137.5°	401.8	402.4
140°	393.3	393.9
142.5°	383.5	383.8
145°	377.6	377.8
147.5°	372.4	372.6
150°	368.1	368.1
152.5°	363.0	363.0
155°	361.2	361.0
157.5°	361.0	360.8
160°	362.6	362.2
162.5°	364.3	364.0
165°	367.3	366.7
167.5°	372.1	372.0
170°	375.2	375.0
172.5°	378.3	378.1
175°	379.5	379.3
177.5°	382.4	382.1
180°	384.3	384.3

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

Report Prepared for

Cooper Lighting Solutions

Metalux

Report Number: SP1-2506-472-2

Test Date: 07/31/2025

Luminaire Tested: EHBR-60-L830-N

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

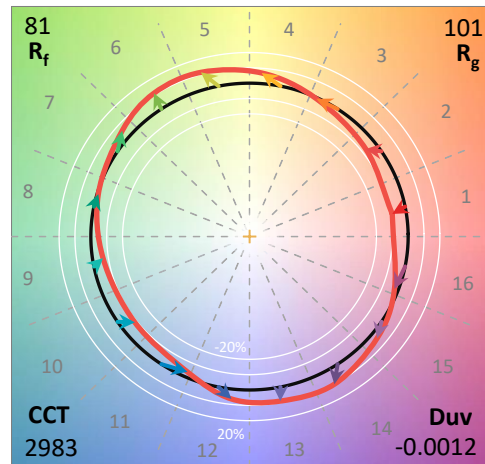
Test Information

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

Spectral Parameters

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

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



Test Conditions

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

REPORT NUMBER: SP1-2506-472-2

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

REPORT NUMBER: SP1-2506-472-2

CIE 1931 Chromaticity Diagram



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

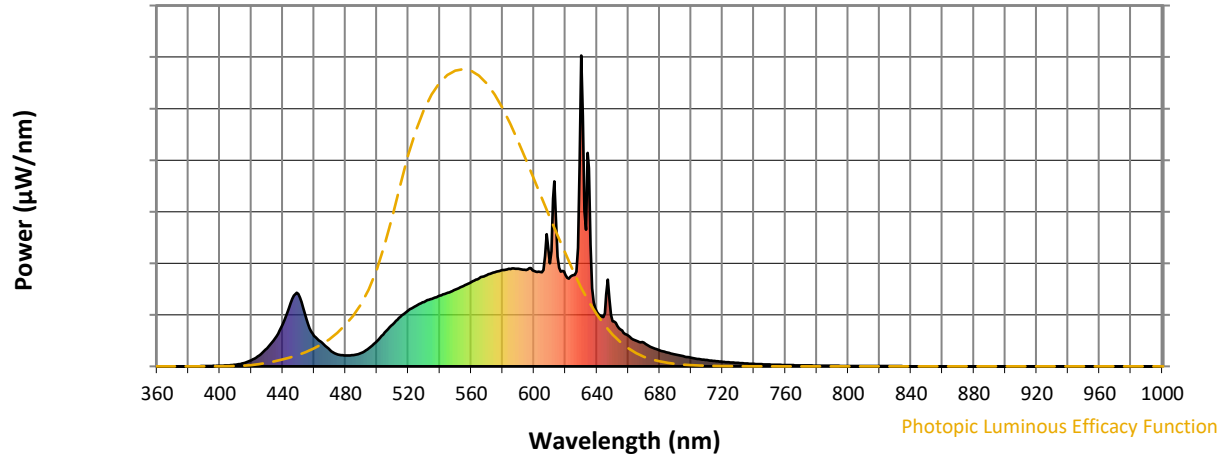


CCT = 2983K
 CIE x = 0.4364
 CIE y = 0.4010
 Duv = -0.0012

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2506-472-2

Photopic Flux vs. Wavelength

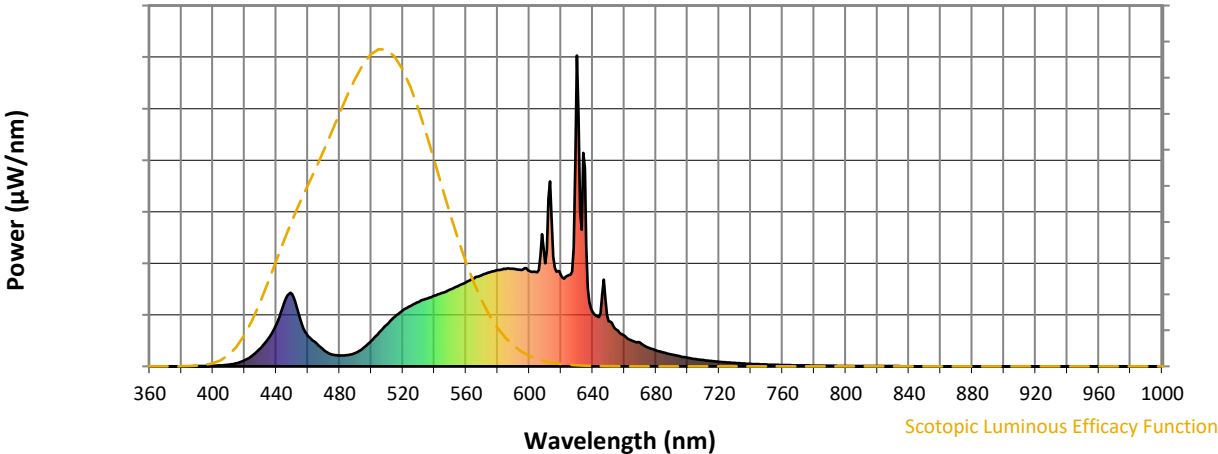


Photopic Lumens: NR

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

REPORT NUMBER: SP1-2506-472-2

Scotopic Flux vs. Wavelength



Scotopic Lumens: NR S/P: 1.27

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

REPORT NUMBER: SP1-2506-472-2

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.34

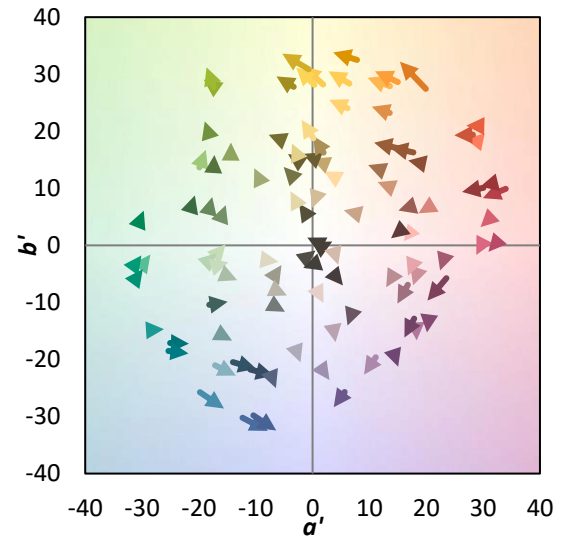
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	43	NR	620	294	NR	750	6	NR	880	0	NR
365	0	NR	495	59	NR	625	294	NR	755	5	NR	885	0	NR
370	0	NR	500	81	NR	630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

Summary

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



Color Vector Graphics

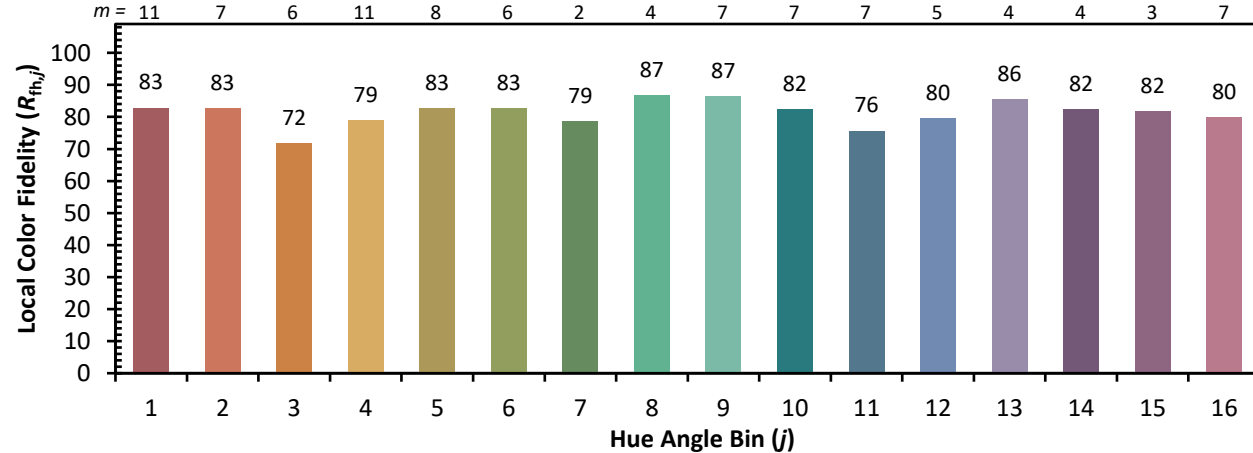


Individual Sample Fidelity Index ($R_{f,i}$)

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



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)