

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: P1444418

Luminaire Tested: EHBR1-54-UNV-TA-L840-UPL40

Issue Date: 5/1/2026

Test Information

Test Method: LM-79-2019
Report Number: P1444418
REPORT IS A COMBINATION OF REPORTS P1444361 AND P1431635
Test Lab: INNOVATION CENTER
Issue Date: 5/1/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: EHBR1-54-UNV-TA-L840-UPL40
Description: Elevate Round Highbay at, 54000 lumens, 4000K 80CRI LEDs with TA lens
Light Source: -
Ballast/Driver: -

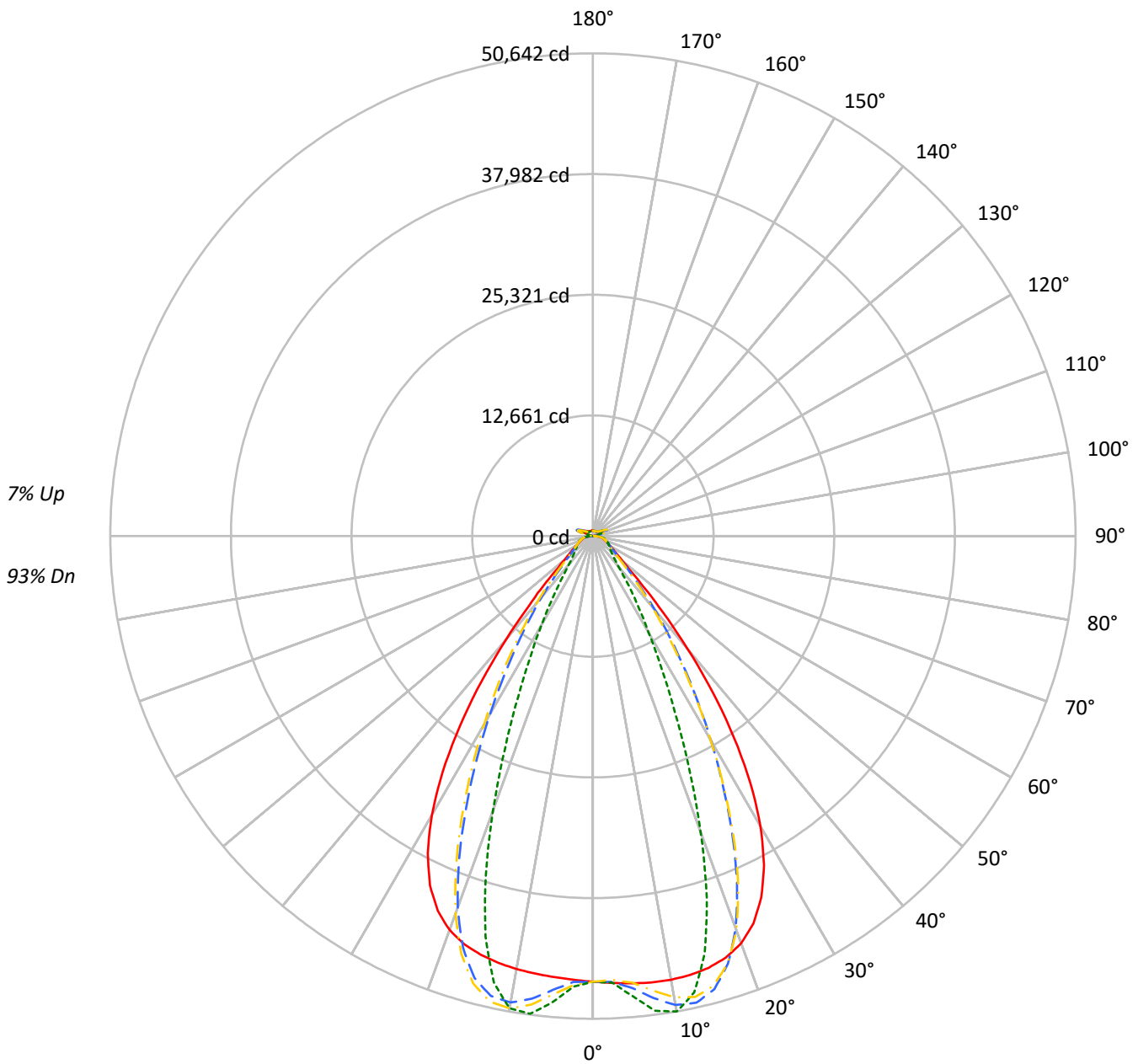
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 58035.7 lumens
Efficiency: N/A
Efficacy: 177.7 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): 326.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P1444418
CATALOG NUMBER: EHBR1-54-UNV-TA-L840-UPL40

Luminous Intensity Polar Plot



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



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				
RC	80				70				50				30				10			0	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	117	117	117	117	114	114	114	114	107	107	107	101	101	101	95	95	95	95	95	95	93
1	110	107	104	101	107	104	101	99	98	96	94	93	92	90	89	87	86	86	86	86	84
2	103	97	93	88	100	95	91	87	91	87	84	86	83	81	83	80	78	78	78	78	76
3	97	89	83	79	94	87	82	78	84	79	75	80	76	73	77	74	71	71	71	71	69
4	91	82	76	71	89	81	75	70	78	72	69	75	70	67	72	68	65	65	65	65	63
5	86	76	70	65	84	75	69	64	72	67	63	70	65	61	67	63	60	60	60	60	58
6	81	71	64	59	79	70	63	59	67	62	58	65	60	57	63	59	56	56	56	56	54
7	77	66	59	55	75	65	59	54	63	57	53	61	56	53	59	55	52	52	52	52	50
8	72	62	55	51	71	61	55	50	59	54	50	57	53	49	56	52	48	48	48	48	47
9	69	58	51	47	67	57	51	47	56	50	46	54	49	46	53	48	45	45	45	45	44
10	65	55	48	44	64	54	48	44	52	47	43	51	46	43	50	46	42	42	42	42	41

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	219529	219529	219529	219529
5°	220592	227024	217504	229998
10°	222434	238358	217099	236781
15°	223525	216070	216719	207370
20°	221214	160965	213974	148930
25°	209388	101801	202467	92366
30°	182916	61175	175831	55908
35°	140773	38387	132675	34004
40°	89052	24080	81475	22627
45°	45899	18759	45138	18451
50°	26910	16687	26085	16426
55°	20616	15787	19853	15645
60°	17444	16127	16702	15918
65°	16385	16841	15757	16266
70°	16007	17634	15209	16971
75°	17116	18701	16190	17875
80°	17711	20708	16057	18904
85°	16680	19980	13477	17108

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 25°
 Vertical Angle: 45°
 Luminance: 70242 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4607.0	7.9
10°-20°	12960.1	22.3
20°-30°	14760.5	25.4
30°-40°	10609.2	18.3
40°-50°	4892.9	8.4
50°-60°	2341.5	4.0
60°-70°	1708.5	2.9
70°-80°	1297.9	2.2
80°-90°	597.3	1.0
90°-100°	122.1	0.2
100°-110°	696.1	1.2
110°-120°	1285.8	2.2
120°-130°	788.2	1.4
130°-140°	508.8	0.9
140°-150°	379.0	0.7
150°-160°	265.2	0.5
160°-170°	160.5	0.3
170°-180°	55.0	0.1
0°-30°	32327.6	55.7
0°-40°	42936.8	74.0
0°-60°	50171.2	86.4
0°-90°	53774.9	92.7
90°-120°	2104.0	3.6
90°-150°	3780.1	6.5
90°-180°	4261.0	7.3
0°-180°	58035.7	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	46747	46747	46747	46747	46747	
5°	47100	48473	46441	49108	47100	4501
15°	46894	45330	45467	43505	46894	13213
25°	41815	20330	40432	18445	41815	18955
35°	25837	7045	24351	6241	25837	15857
45°	7426	3035	7303	2985	7426	6316
55°	2786	2133	2683	2114	2786	2572
65°	1710	1758	1645	1698	1710	1708
75°	1206	1317	1140	1259	1206	1254
85°	573	687	463	588	573	539
90°	158	199	48	58	158	98
95°	56	62	56	62	56	53
105°	251	324	169	324	251	333
115°	1122	1359	1176	1360	1122	1036
125°	846	885	958	887	846	771
135°	669	591	720	596	669	522
145°	597	577	635	584	597	377
155°	560	561	596	566	560	261
165°	559	558	580	562	559	159
175°	573	579	584	580	573	55
180°	581	581	581	581	581	



TEST NUMBER: P1444418
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CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
0°	46747.2	46747.2	46747.2	46747.2	46747.2	46747.2	46747.2	46747.2	46747.2	46747.2	46747.2
2.5°	46925.8	46921.9	46921.3	46918.0	46917.1	46917.1	46915.6	46911.7	46909.3	46904.0	46897.9
5°	47099.9	47097.8	47099.0	47099.4	47096.1	47088.8	47077.4	47063.4	47045.6	47029.1	47014.2
7.5°	47234.5	47237.8	47242.0	47241.1	47230.9	47213.7	47190.3	47177.2	47185.0	47210.4	47268.6
10°	47259.1	47279.2	47287.0	47284.6	47264.2	47249.5	47255.1	47304.6	47403.2	47534.8	47714.6
12.5°	47163.3	47187.9	47187.0	47178.9	47159.1	47179.2	47251.0	47398.4	47609.8	47869.2	48173.4
15°	46894.3	46926.2	46917.1	46906.6	46893.4	46959.4	47102.6	47358.7	47685.1	48050.9	48425.2
17.5°	46371.9	46410.4	46391.7	46379.7	46368.6	46492.3	46738.5	47113.4	47524.5	47938.3	48293.1
20°	45465.8	45491.6	45447.1	45426.1	45443.8	45686.2	46048.7	46527.6	46961.0	47352.2	47594.7
22.5°	43987.2	44019.1	43935.5	43925.8	44029.0	44401.3	44860.1	45395.4	45802.6	46112.7	46206.1
25°	41814.6	41846.1	41746.7	41806.1	41981.8	42488.8	43035.3	43607.9	43955.3	44184.9	44121.6
27.5°	38882.1	38910.9	38816.6	38937.9	39215.6	39881.9	40525.1	41146.1	41455.8	41616.7	41412.8
30°	35183.7	35243.5	35132.1	35301.4	35725.3	36590.4	37327.1	38023.7	38332.4	38454.9	38137.5
32.5°	30791.1	30876.2	30753.4	31005.3	31596.7	32635.9	33472.9	34251.1	34592.6	34732.4	34373.9
35°	25836.9	25958.8	25818.0	26196.0	26925.6	28082.7	29009.6	29878.4	30282.8	30481.0	30119.8
37.5°	20588.0	20704.3	20628.1	21132.4	21933.5	23132.9	24079.1	25016.3	25473.0	25770.5	25485.7
40°	15434.9	15541.2	15598.9	16175.7	16929.2	18059.7	18968.3	19895.8	20406.6	20780.1	20604.4
42.5°	10894.0	11001.2	11197.4	11753.8	12382.2	13318.0	14096.3	14929.0	15417.0	15815.4	15747.6
45°	7426.2	7550.8	7796.4	8252.1	8706.6	9377.8	9949.4	10597.0	10995.7	11360.5	11364.9
47.5°	5203.9	5291.4	5511.0	5822.1	6118.4	6958.8	6993.3	7311.5	7579.5	7852.2	7887.6
50°	4010.6	4063.2	4179.7	4353.1	4520.9	4739.1	4938.9	5169.4	5334.4	5483.9	5519.6
52.5°	3296.4	3329.9	3389.1	3483.1	3580.4	3699.1	3805.9	3932.6	4022.4	4102.4	4119.2
55°	2786.1	2813.8	2902.0	2919.7	3031.2	3052.6	3100.2	3177.2	3229.4	3277.3	3289.3
57.5°	2400.9	2421.0	2439.8	2479.7	2514.0	2564.0	2604.1	2659.4	2692.3	2726.9	2730.0
60°	2097.0	2111.5	2125.0	2152.6	2176.0	2210.7	2238.4	2276.0	2299.5	2325.5	2328.5
62.5°	1870.9	1881.3	1890.2	1908.5	1925.2	1951.8	1973.8	2005.2	2027.2	2047.3	2051.8
65°	1710.2	1717.8	1723.5	1737.4	1751.9	1774.6	1794.5	1820.1	1836.3	1851.7	1854.9
67.5°	1567.8	1575.0	1580.9	1593.5	1603.6	1620.6	1634.0	1653.1	1665.3	1677.6	1678.0
70°	1404.5	1411.3	1415.8	1427.6	1435.7	1450.2	1461.0	1478.4	1490.8	1504.5	1508.0
72.5°	1291.6	1295.6	1301.6	1312.4	1323.6	1339.2	1353.6	1371.6	1386.7	1400.9	1406.9
75°	1205.7	1210.3	1214.3	1223.5	1231.3	1244.5	1255.2	1271.6	1284.9	1300.1	1307.6
77.5°	1081.6	1087.0	1090.4	1099.6	1106.4	1119.0	1127.0	1141.7	1152.5	1166.3	1173.1
80°	931.7	936.8	939.2	947.9	953.2	964.8	972.7	986.8	995.9	1009.7	1017.9
82.5°	765.6	770.5	771.8	780.0	782.9	792.5	798.1	812.7	823.8	841.8	854.3
85°	573.3	575.0	577.8	575.7	587.3	588.0	601.2	603.6	620.9	625.5	645.2
87.5°	350.5	355.7	358.3	366.3	369.7	377.7	380.1	388.6	393.3	403.0	407.5
90°	158.0	166.7	170.0	180.1	183.2	192.3	194.9	205.0	208.4	218.8	223.8
92.5°	49.0	52.2	55.2	58.9	62.1	66.2	69.8	73.5	76.7	80.7	87.2
95°	55.8	59.4	63.1	66.7	70.3	73.9	77.5	81.1	84.8	88.4	98.8
97.5°	69.8	73.0	76.1	79.2	82.3	85.6	88.7	91.8	94.9	98.0	110.6
100°	90.6	93.2	96.0	98.6	101.2	103.9	106.6	109.2	111.9	114.5	137.8
102.5°	149.1	158.5	168.0	177.4	186.8	196.0	205.6	214.8	224.3	233.7	283.1
105°	251.4	276.9	302.7	328.0	353.7	379.3	404.9	430.0	455.7	481.2	561.9
107.5°	428.1	475.2	522.6	570.0	617.3	664.5	711.8	759.1	806.2	853.2	935.1
110°	788.5	826.3	864.4	902.6	940.5	978.6	1016.6	1054.3	1092.4	1130.3	1190.0



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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°	1062.6	1079.6	1096.9	1114.1	1131.3	1148.2	1165.4	1182.4	1199.7	1216.6	1259.1
115°	1122.1	1128.0	1134.2	1140.0	1146.0	1151.9	1157.7	1163.5	1169.5	1175.1	1203.9
117.5°	1091.4	1090.2	1089.1	1088.0	1086.6	1085.4	1084.2	1082.7	1081.2	1079.8	1096.0
120°	1020.0	1014.5	1009.3	1003.7	998.2	992.7	987.3	981.6	975.8	970.0	976.9
122.5°	929.7	923.1	917.1	910.2	903.8	896.8	890.4	883.2	876.7	869.9	872.2
125°	846.5	839.8	833.6	826.9	819.9	813.2	806.3	799.3	792.4	785.3	786.4
127.5°	774.5	770.0	765.3	760.3	755.4	750.3	745.2	740.0	735.1	729.5	729.6
130°	729.1	725.0	720.7	716.1	711.7	706.9	702.2	697.2	692.7	687.5	687.8
132.5°	692.4	689.4	686.4	683.0	679.7	675.7	672.4	668.3	664.8	661.0	661.4
135°	668.8	665.8	663.2	660.0	656.9	653.2	649.7	646.0	642.5	638.7	639.5
137.5°	649.0	646.5	643.8	640.8	637.9	634.4	631.2	627.7	624.4	620.8	621.4
140°	631.0	628.7	626.2	623.4	620.7	617.7	614.6	611.5	608.1	604.9	605.9
142.5°	610.4	608.3	606.6	604.2	602.1	599.3	596.8	593.9	591.5	588.5	590.1
145°	597.4	595.8	594.3	592.3	590.2	587.7	585.6	582.9	580.8	578.4	580.0
147.5°	586.1	584.7	583.6	581.9	580.4	578.2	576.2	574.1	572.2	570.2	571.9
150°	576.2	575.0	573.8	572.4	570.7	568.8	567.0	565.1	563.2	561.2	562.9
152.5°	565.5	564.1	563.1	561.7	560.1	558.1	556.7	554.7	553.0	551.1	552.5
155°	560.0	558.6	557.3	556.0	554.4	552.7	551.0	549.4	547.9	546.0	547.2
157.5°	557.2	556.0	554.9	553.5	552.5	551.1	549.8	548.4	547.1	545.8	546.5
160°	557.1	556.0	554.8	553.5	552.3	550.8	549.8	548.4	547.4	546.0	546.5
162.5°	557.4	556.2	554.9	553.7	552.5	551.1	550.0	548.9	547.7	546.3	547.2
165°	559.4	558.8	557.9	557.0	556.2	555.3	554.4	553.3	552.5	551.4	552.0
167.5°	565.8	564.7	563.9	562.9	561.7	560.8	559.7	558.6	557.8	556.6	557.1
170°	568.9	568.0	567.5	567.0	566.3	565.5	565.0	564.3	563.6	562.9	563.4
172.5°	572.6	571.9	571.6	571.3	570.6	570.2	569.7	569.2	568.9	568.2	569.0
175°	573.4	572.9	572.8	572.4	572.1	571.7	571.6	571.2	571.2	570.7	571.1
177.5°	577.5	577.3	577.3	577.1	577.1	576.9	576.7	576.4	576.2	576.2	576.6
180°	580.9	580.9	580.9	580.9	580.9	580.9	580.9	580.9	580.9	580.9	580.9



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CANDELA DISTRIBUTION (continued):

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
0°	46747.2	46747.2	46747.2	46747.2	46747.2	46747.2	46747.2	46747.2	46747.2	46747.2	46747.2
2.5°	46893.4	46887.6	46879.9	46870.0	46861.5	46851.6	46828.2	46821.3	46829.1	46834.3	46845.0
5°	47004.8	47008.1	47009.3	47030.6	47049.0	47094.9	47454.6	47597.5	47708.0	47778.2	47884.7
7.5°	47340.8	47448.8	47555.7	47699.6	47823.6	47991.1	48620.4	48888.2	49078.6	49215.5	49383.9
10°	47910.0	48145.9	48367.2	48626.4	48849.2	49104.4	49690.1	49951.0	50115.8	50235.7	50347.7
12.5°	48483.5	48810.8	49106.5	49395.0	49636.1	49857.3	50063.4	50154.7	50162.4	50166.3	50106.8
15°	48782.1	49095.0	49355.6	49546.3	49688.1	49750.8	49396.2	49210.1	48974.9	48781.3	48462.7
17.5°	48593.6	48781.3	48893.9	48882.8	48824.3	48628.1	47623.6	47071.2	46522.7	46028.4	45380.2
20°	47755.7	47741.2	47643.4	47366.0	47031.8	46512.1	44789.9	43796.4	42835.7	41992.0	40968.4
22.5°	46196.6	45951.3	45609.2	45011.2	44346.8	43438.8	40970.8	39509.3	38172.0	36990.5	35667.1
25°	43937.5	43432.9	42802.1	41852.6	40820.1	39495.8	36454.0	34636.0	33030.4	31637.8	30110.8
27.5°	41046.5	40286.3	39361.8	38047.8	36648.9	34952.3	31580.0	29573.7	27850.0	26357.0	24731.7
30°	37623.8	36635.1	35441.3	33810.4	32123.1	30198.8	26778.5	24746.4	23001.8	21465.8	19839.3
32.5°	33755.8	32597.8	31199.0	29368.4	27543.7	25565.2	22262.0	20295.1	18628.5	17150.8	15678.6
35°	29489.6	28247.8	26767.9	24900.8	23087.0	21163.5	18132.5	16359.0	14887.3	13581.1	12392.4
37.5°	24913.4	23694.0	22287.5	20527.8	18845.9	17102.8	14487.5	13001.4	11766.4	10682.3	9764.4
40°	20155.5	19088.4	17871.3	16350.0	14914.6	13463.0	11316.2	10136.5	9161.8	8335.0	7647.3
42.5°	15455.7	14628.8	13695.5	12493.2	11394.8	10289.5	8637.2	7763.1	7041.2	6446.1	5959.9
45°	11213.6	10660.5	10034.5	9198.8	8438.7	7667.7	6491.7	5877.5	5407.3	5023.6	4699.1
47.5°	7838.9	7518.1	7498.5	6726.1	6168.7	5697.3	4939.8	4551.8	4263.7	4031.2	3825.7
50°	5505.0	5349.8	5157.0	4881.3	4622.6	4356.3	3894.6	3660.0	3491.3	3350.5	3220.5
52.5°	4115.4	4034.8	3932.1	3785.9	3645.7	3495.9	3203.8	3054.4	3001.4	2870.2	2767.3
55°	3287.1	3240.8	3182.5	3096.5	3011.3	2977.2	2726.8	2615.9	2545.7	2493.9	2438.7
57.5°	2730.5	2695.9	2661.3	2603.1	2553.7	2493.9	2361.1	2304.3	2262.5	2232.0	2193.7
60°	2329.0	2308.4	2289.0	2254.8	2228.2	2196.0	2111.5	2079.5	2057.7	2039.3	2014.9
62.5°	2055.6	2045.0	2035.0	2016.8	2003.3	1985.8	1928.1	1912.7	1901.8	1892.6	1877.6
65°	1858.3	1850.7	1845.2	1832.9	1826.2	1816.0	1766.5	1756.1	1749.3	1746.0	1737.4
67.5°	1679.0	1671.0	1667.4	1658.7	1656.0	1649.5	1609.0	1603.3	1601.0	1602.1	1599.0
70°	1511.3	1508.0	1509.7	1508.4	1512.1	1513.3	1488.8	1488.6	1491.2	1496.3	1496.9
72.5°	1410.8	1410.8	1412.7	1413.5	1417.1	1419.0	1398.5	1397.5	1398.7	1402.5	1402.6
75°	1315.1	1316.7	1321.9	1323.6	1327.9	1328.9	1301.8	1298.7	1298.9	1302.5	1301.3
77.5°	1182.7	1188.5	1198.4	1203.5	1211.9	1213.4	1183.2	1179.5	1179.6	1183.3	1180.2
80°	1032.6	1043.5	1059.2	1070.1	1083.0	1088.2	1057.0	1049.6	1042.6	1041.6	1035.3
82.5°	873.0	886.3	905.3	915.1	928.8	931.9	879.7	869.9	864.0	864.5	858.8
85°	666.4	676.5	693.7	699.2	707.7	707.0	647.5	621.9	628.7	618.1	626.5
87.5°	418.0	424.0	434.7	436.1	440.0	439.2	379.3	367.5	364.0	364.1	359.8
90°	235.4	241.3	252.6	254.5	262.6	263.7	217.0	213.4	207.6	208.3	200.6
92.5°	94.0	100.4	107.3	113.6	120.4	127.1	128.1	133.1	126.8	119.7	113.6
95°	109.5	120.1	130.7	141.4	152.0	162.5	173.2	183.8	174.0	164.0	154.1
97.5°	123.1	135.7	148.0	160.6	173.1	185.8	198.3	210.9	200.3	189.2	178.6
100°	161.3	184.7	208.0	231.5	254.7	278.1	301.6	325.0	304.4	283.6	263.0
102.5°	332.7	382.5	432.2	481.7	531.2	581.1	631.0	680.8	633.5	586.0	538.7
105°	642.3	722.8	803.4	883.5	964.1	1044.6	1125.5	1206.2	1130.6	1055.0	979.4
107.5°	1016.6	1098.4	1179.7	1261.2	1343.0	1424.6	1506.9	1588.7	1514.9	1441.0	1367.3
110°	1249.5	1308.9	1368.5	1427.9	1487.4	1546.8	1607.4	1667.1	1622.7	1578.2	1534.0



TEST NUMBER: P1444418
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CANDELA DISTRIBUTION (continued):

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
112.5°	1301.4	1344.2	1386.7	1428.9	1471.2	1513.8	1557.8	1600.6	1578.2	1555.6	1533.5
115°	1232.3	1261.1	1289.6	1318.1	1346.6	1375.0	1405.4	1434.5	1427.0	1419.8	1412.5
117.5°	1111.7	1127.7	1143.6	1159.3	1175.0	1190.8	1209.2	1225.3	1226.2	1227.2	1228.5
120°	983.4	990.0	996.5	1003.0	1009.3	1015.9	1025.2	1032.3	1038.1	1043.6	1049.4
122.5°	874.5	876.9	879.0	881.4	883.5	885.7	891.4	894.4	898.1	902.0	905.9
125°	787.3	788.3	789.2	790.2	790.9	791.9	796.7	798.2	798.2	798.1	798.1
127.5°	729.5	729.5	729.3	729.3	728.8	728.8	732.7	733.4	730.6	727.8	724.8
130°	688.1	688.4	688.5	688.8	689.2	689.4	694.1	695.5	690.7	685.6	680.8
132.5°	661.7	662.3	662.4	663.2	663.6	663.9	669.2	670.8	665.4	659.6	654.1
135°	639.9	640.7	641.3	641.9	642.5	643.5	649.3	651.1	646.1	640.5	635.3
137.5°	621.8	622.7	623.3	624.3	624.8	625.7	632.0	634.2	630.0	625.4	621.3
140°	606.7	607.6	608.6	609.7	610.6	612.0	618.9	621.3	618.1	614.6	610.9
142.5°	591.2	592.9	594.4	596.2	597.7	599.6	607.7	610.7	608.3	605.4	603.0
145°	581.5	583.6	585.3	587.5	589.5	591.7	600.8	604.4	602.8	600.9	599.1
147.5°	573.0	574.8	576.5	578.4	580.3	582.7	592.1	595.7	594.8	593.5	592.4
150°	564.3	566.3	568.0	569.9	572.1	574.3	585.0	589.2	588.2	587.2	586.1
152.5°	554.0	555.7	557.3	559.1	560.8	562.9	575.7	580.1	579.4	578.2	577.5
155°	548.2	549.4	550.5	552.0	553.2	555.2	568.7	573.0	572.5	571.9	571.3
157.5°	547.2	547.8	548.4	549.4	550.4	551.4	565.5	570.1	569.4	568.9	568.4
160°	547.0	547.5	547.9	548.7	549.2	550.0	564.6	568.7	568.3	567.7	567.1
162.5°	547.8	548.9	549.6	550.4	551.3	552.4	567.1	571.8	570.9	570.1	569.4
165°	552.3	552.6	553.0	553.6	553.9	554.6	568.4	572.1	571.8	571.1	570.6
167.5°	557.4	558.1	558.4	559.1	559.6	560.5	573.3	576.9	576.6	575.9	575.5
170°	563.6	564.3	564.5	565.1	565.7	566.6	577.1	580.3	579.9	578.9	578.4
172.5°	569.4	570.2	570.8	571.4	572.0	572.8	581.9	584.8	584.4	583.7	583.0
175°	571.6	571.9	572.5	573.3	573.8	574.3	581.5	583.6	583.4	583.0	582.7
177.5°	577.1	577.3	577.9	578.4	578.9	579.3	583.6	584.9	584.8	584.8	584.6
180°	580.9	580.9	580.9	580.9	580.9	580.9	580.9	580.9	580.9	580.9	580.9



TEST NUMBER: P1444418
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CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
0°	46747.2	46747.2	46747.2	46747.2	46747.2	46747.2	46747.2	46747.2	46747.2	46747.2	46747.2
2.5°	46847.5	46863.9	46866.3	46885.6	46884.0	46906.9	46903.3	46921.9	46911.0	46926.5	46913.5
5°	47947.8	48047.6	48099.7	48197.1	48228.0	48315.1	48339.7	48419.2	48422.5	48485.6	48471.1
7.5°	49503.4	49650.5	49737.8	49858.2	49919.2	50019.6	50063.7	50137.8	50161.7	50220.7	50225.2
10°	50432.3	50503.8	50553.6	50587.2	50617.9	50632.3	50649.1	50644.6	50649.1	50642.5	50656.9
12.5°	50067.0	49962.7	49893.7	49763.1	49687.4	49543.1	49472.2	49333.4	49283.0	49163.8	49146.7
15°	48216.5	47853.0	47596.2	47222.7	46988.0	46620.5	46405.5	46074.1	45922.6	45659.2	45590.1
17.5°	44843.7	44169.0	43646.8	42977.0	42512.2	41886.3	41492.6	40974.5	40690.6	40272.8	40128.1
20°	40115.1	39116.8	38333.6	37400.6	36732.9	35901.0	35368.4	34696.7	34306.7	33793.5	33585.5
22.5°	34563.7	33320.8	32342.6	31240.4	30434.8	29507.7	28869.6	28142.8	27718.5	27161.0	26914.2
25°	28841.8	27471.1	26383.6	25222.4	24371.2	23441.8	22803.6	22089.6	21650.6	21121.3	20876.0
27.5°	23369.2	21981.9	20930.9	19851.3	19070.4	18231.8	17656.0	17032.6	16643.0	16191.1	15960.4
30°	18539.9	17316.3	16421.9	15525.9	14876.3	14195.3	13716.7	13200.1	12858.3	12471.4	12251.6
32.5°	14605.4	13660.6	12960.4	12249.4	11717.8	11148.6	10735.2	10279.3	9970.7	9625.3	9426.2
35°	11567.3	10833.2	10274.6	9689.4	9232.7	8747.9	8383.6	7990.2	7713.3	7415.8	7243.9
37.5°	9139.3	8555.6	8096.0	7609.9	7234.7	6833.1	6697.8	6246.4	5959.5	5722.1	5557.7
40°	7172.6	6708.4	6328.1	5956.3	5650.4	5345.8	5101.4	4860.2	4675.0	4505.2	4387.7
42.5°	5601.2	5265.0	4987.2	4714.9	4491.7	4269.8	4092.7	3926.5	3801.8	3690.7	3615.0
45°	4452.7	4221.5	4028.4	3836.6	3679.1	3531.0	3411.8	3305.8	3225.3	3158.6	3111.3
47.5°	3658.0	3499.6	3363.5	3234.0	3127.2	3030.1	2950.3	2924.3	2837.7	2779.3	2757.1
50°	3108.8	3013.2	2909.8	2814.3	2742.9	2671.8	2620.1	2569.3	2536.9	2510.1	2501.9
52.5°	2698.9	2625.8	2568.3	2507.8	2460.6	2410.1	2374.4	2340.6	2322.8	2308.7	2307.0
55°	2394.2	2343.0	2305.0	2264.4	2236.1	2206.5	2188.0	2170.2	2162.4	2155.2	2155.7
57.5°	2163.6	2129.4	2104.7	2078.3	2063.1	2048.9	2044.1	2039.7	2042.1	2043.1	2047.2
60°	1995.5	1973.3	1957.8	1942.6	1936.3	1931.7	1935.2	1939.2	1947.4	1953.9	1959.8
62.5°	1866.8	1854.1	1846.5	1838.4	1837.7	1838.0	1845.0	1851.7	1861.9	1869.6	1875.2
65°	1734.3	1727.0	1724.6	1719.3	1722.0	1723.5	1731.8	1737.0	1747.2	1753.3	1760.6
67.5°	1600.3	1598.6	1600.2	1600.2	1604.8	1608.9	1616.8	1622.7	1631.4	1636.9	1642.8
70°	1501.4	1502.1	1505.7	1506.4	1511.5	1514.2	1521.2	1524.9	1532.8	1537.4	1544.6
72.5°	1405.2	1403.7	1404.5	1402.3	1404.0	1403.3	1407.2	1409.1	1415.6	1419.3	1427.9
75°	1302.8	1298.5	1297.5	1292.8	1292.9	1289.7	1291.2	1291.0	1295.4	1297.2	1303.3
77.5°	1179.1	1171.9	1168.4	1160.7	1160.5	1157.5	1160.7	1162.5	1170.1	1173.8	1180.8
80°	1031.2	1019.8	1014.5	1005.6	1007.1	1006.6	1014.2	1019.9	1029.3	1031.0	1040.0
82.5°	857.0	845.4	839.9	831.1	833.1	833.3	840.3	841.5	849.6	853.1	863.5
85°	613.7	618.1	605.9	606.7	604.1	608.9	613.7	619.5	626.3	637.6	646.3
87.5°	361.4	359.8	364.1	364.7	370.9	374.2	384.2	390.0	401.3	410.1	426.0
90°	199.2	191.6	193.3	189.7	194.0	190.6	194.7	190.6	195.9	195.2	202.5
92.5°	106.1	99.9	92.5	86.2	79.0	73.0	69.1	66.6	62.9	60.4	56.5
95°	144.2	134.2	124.3	114.4	104.5	94.6	91.0	87.4	83.7	80.1	76.6
97.5°	168.0	157.3	146.7	136.0	125.3	114.7	112.3	109.9	107.5	105.0	102.6
100°	242.4	221.8	201.3	180.5	160.0	139.4	137.5	135.6	133.7	131.8	129.8
102.5°	491.6	444.4	397.2	350.0	302.9	255.6	247.4	239.1	231.0	222.7	214.5
105°	903.8	828.2	752.7	677.1	601.8	526.2	503.7	481.0	458.5	436.0	413.6
107.5°	1293.4	1219.8	1146.1	1072.6	998.9	925.3	889.5	854.0	818.2	782.7	747.3
110°	1489.3	1444.9	1400.8	1356.3	1312.2	1268.0	1233.8	1200.0	1165.9	1131.9	1098.0



TEST NUMBER: P1444418
 CATALOG NUMBER: EHBR1-54-UNV-TA-L840-UPL40

CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
112.5°	1511.1	1488.8	1466.4	1444.2	1422.2	1399.9	1383.2	1366.6	1350.1	1333.5	1316.6
115°	1405.0	1397.9	1390.6	1383.5	1376.6	1369.3	1368.0	1366.9	1365.4	1364.3	1363.2
117.5°	1229.4	1230.4	1231.3	1232.6	1233.8	1235.0	1243.7	1252.2	1261.0	1270.0	1278.9
120°	1054.9	1060.7	1066.2	1072.2	1077.9	1083.8	1095.2	1107.0	1118.6	1130.8	1142.8
122.5°	909.5	913.4	917.1	921.1	925.1	929.0	940.3	951.9	963.4	975.2	987.2
125°	797.5	797.4	797.2	796.9	796.7	796.9	806.0	815.4	825.0	834.7	844.3
127.5°	721.8	718.6	715.6	712.8	709.5	706.9	712.1	717.5	722.8	728.6	734.1
130°	675.7	670.7	665.4	660.7	655.4	650.6	652.3	654.2	656.2	658.3	660.5
132.5°	648.3	642.6	636.8	630.9	625.2	619.4	618.9	618.4	617.8	617.7	617.7
135°	629.6	624.5	618.7	613.2	607.4	602.3	600.5	598.6	597.0	595.5	594.1
137.5°	616.8	612.4	607.8	603.6	598.8	594.5	591.9	590.0	587.5	585.9	583.7
140°	607.3	603.9	600.1	596.4	592.7	589.3	587.0	585.3	583.4	581.8	580.1
142.5°	600.1	597.3	594.5	591.9	589.0	586.3	584.3	582.6	580.8	579.3	577.5
145°	597.2	595.4	593.5	591.6	589.7	587.8	586.1	584.8	583.4	582.0	581.0
147.5°	591.2	589.8	588.5	587.3	585.8	584.5	583.3	582.7	581.3	580.6	579.6
150°	584.9	583.7	582.5	581.6	580.1	579.1	578.2	577.7	576.7	576.4	575.7
152.5°	576.1	575.2	574.0	573.2	571.8	570.8	570.1	569.7	569.1	568.7	567.8
155°	570.4	569.7	568.9	568.2	567.1	566.6	565.7	564.8	564.1	563.4	562.6
157.5°	567.7	567.0	566.0	565.5	564.5	563.8	563.1	562.4	561.6	561.0	560.2
160°	566.5	565.8	565.0	564.3	563.6	562.9	561.9	561.0	560.0	559.3	558.1
162.5°	568.4	567.5	566.7	565.7	564.5	563.8	562.9	562.3	561.6	560.9	560.0
165°	569.9	569.2	568.5	567.8	567.3	566.6	565.5	564.7	563.6	562.9	561.7
167.5°	574.8	574.3	573.6	573.1	572.3	571.6	570.9	569.9	569.0	568.0	566.9
170°	577.9	576.8	576.2	575.3	574.5	573.6	572.9	571.9	571.0	570.4	569.3
172.5°	582.5	582.0	581.3	580.8	579.8	579.2	578.7	577.9	577.1	576.2	575.7
175°	582.5	582.4	582.2	581.7	581.5	581.1	580.8	580.6	580.3	580.1	579.6
177.5°	584.6	584.4	584.4	584.1	583.9	583.9	583.5	583.2	582.9	582.5	582.2
180°	580.9	580.9	580.9	580.9	580.9	580.9	580.9	580.9	580.9	580.9	580.9



TEST NUMBER: P1444418
 CATALOG NUMBER: EHBR1-54-UNV-TA-L840-UPL40

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	92.5°	95°	97.5°	100°	102.5°	105°	107.5°
0°	46747.2	46747.2	46747.2	46747.2	46747.2	46747.2	46747.2	46747.2	46747.2	46747.2	46747.2
2.5°	46927.0	46915.1	46920.7	46898.7	46904.0	46877.4	46875.0	46845.0	46842.1	46813.9	46803.3
5°	48515.8	48489.7	48519.2	48473.3	48482.2	48422.5	48417.5	48340.2	48313.5	48216.9	48175.1
7.5°	50262.0	50252.2	50270.2	50231.8	50230.5	50177.2	50155.2	50085.9	50042.9	49941.4	49876.6
10°	50644.6	50653.6	50638.9	50642.5	50621.7	50616.0	50594.7	50581.2	50546.4	50520.0	50481.3
12.5°	49056.1	49065.6	49005.0	49043.5	49013.1	49084.0	49078.3	49161.7	49174.6	49280.3	49320.3
15°	45384.7	45373.3	45257.1	45330.3	45291.0	45446.6	45481.4	45690.6	45802.6	46071.3	46236.4
17.5°	39838.6	39808.7	39644.9	39734.1	39688.7	39918.2	39995.0	40329.8	40538.6	40971.6	41280.1
20°	33227.4	33170.1	32978.5	33082.9	33036.1	33296.7	33406.5	33811.1	34080.3	34653.8	35061.7
22.5°	26534.0	26443.4	26255.8	26353.4	26309.2	26579.1	26722.0	27127.9	27436.3	28025.0	28501.3
25°	20523.5	20442.7	20261.3	20329.5	20313.1	20541.4	20668.7	21052.6	21355.6	21916.4	22370.9
27.5°	15653.7	15569.7	15405.8	15454.1	15437.5	15632.0	15751.9	16072.7	16333.4	16805.5	17204.7
30°	11980.7	11879.3	11740.3	11767.0	11755.6	11913.3	12025.2	12295.3	12518.8	12917.7	13261.6
32.5°	9183.1	9081.3	8953.6	8966.1	8949.2	9072.9	9165.2	9400.0	9594.8	9934.0	10233.4
35°	7026.4	7145.3	6872.7	7045.4	6865.5	7129.6	7034.6	7181.5	7349.0	7634.8	7884.4
37.5°	5401.6	5318.6	5248.4	5241.0	5240.6	5301.8	5374.0	5515.4	5663.0	5876.0	6096.0
40°	4280.5	4222.3	4176.9	4173.6	4176.9	4220.3	4273.7	4371.5	4479.6	4632.5	4794.2
42.5°	3550.3	3511.6	3484.3	3482.4	3491.0	3521.8	3558.9	3617.0	3687.3	3786.4	3897.3
45°	3072.8	3051.3	3036.1	3035.2	3039.2	3055.3	3076.5	3112.8	3157.4	3219.2	3289.3
47.5°	2737.7	2732.5	2723.0	2723.3	2719.0	2725.6	2728.0	2748.3	2772.0	2818.6	2910.3
50°	2493.7	2493.7	2487.2	2486.9	2480.6	2480.2	2475.1	2483.0	2494.1	2523.0	2552.4
52.5°	2300.9	2300.2	2293.2	2291.7	2285.2	2284.8	2280.3	2283.5	2285.0	2299.5	2317.1
55°	2150.2	2145.7	2136.4	2133.4	2130.8	2134.6	2132.9	2133.0	2131.1	2137.3	2142.4
57.5°	2042.1	2036.3	2027.4	2024.8	2024.1	2028.6	2028.8	2027.2	2019.1	2013.6	2005.7
60°	1956.6	1950.6	1941.1	1938.7	1940.1	1946.3	1946.0	1940.7	1928.6	1918.0	1905.8
62.5°	1872.5	1870.1	1865.2	1864.5	1863.3	1864.3	1860.0	1854.4	1842.5	1831.2	1817.9
65°	1759.7	1760.9	1757.3	1757.8	1753.4	1752.7	1746.2	1740.8	1728.7	1718.4	1704.8
67.5°	1642.6	1643.5	1640.5	1640.5	1638.2	1638.6	1634.6	1629.6	1619.3	1611.1	1600.5
70°	1546.1	1548.5	1546.8	1547.3	1544.6	1543.5	1537.2	1532.4	1521.9	1514.9	1505.3
72.5°	1430.6	1435.7	1435.5	1436.8	1432.6	1430.6	1423.1	1417.0	1407.5	1401.9	1394.3
75°	1305.7	1312.5	1314.4	1317.4	1311.5	1308.4	1300.2	1295.4	1287.6	1284.4	1279.3
77.5°	1184.0	1191.4	1198.6	1205.1	1195.6	1187.1	1176.9	1169.1	1158.0	1153.7	1145.9
80°	1047.3	1060.5	1076.2	1089.4	1072.3	1054.9	1038.2	1025.6	1010.9	1004.9	995.2
82.5°	868.8	882.4	891.4	899.8	887.9	875.3	859.0	848.1	832.1	826.3	815.0
85°	660.1	676.9	682.3	686.7	679.2	672.4	657.2	636.5	626.5	610.7	602.6
87.5°	434.2	444.3	446.1	447.7	443.1	439.7	429.8	420.1	403.0	390.5	375.2
90°	200.1	204.8	198.9	199.4	195.4	197.9	189.9	188.5	176.4	172.9	162.3
92.5°	53.8	50.1	47.1	43.9	47.8	50.2	54.1	56.5	60.3	62.9	66.6
95°	73.0	69.3	65.7	62.1	65.0	67.8	70.7	73.7	76.5	79.4	82.3
97.5°	100.2	97.8	95.4	92.9	94.6	96.4	98.0	99.7	101.4	103.1	104.8
100°	127.8	125.9	124.0	122.1	122.1	122.1	122.1	122.1	122.1	122.1	122.1
102.5°	206.2	198.1	189.8	181.6	187.2	192.7	198.3	203.8	209.5	215.0	220.8
105°	391.1	368.6	346.2	323.7	345.4	367.2	388.9	410.7	432.4	454.5	476.1
107.5°	711.5	676.0	640.5	605.0	644.9	684.4	724.1	763.7	803.3	842.9	882.9
110°	1064.2	1030.4	996.6	962.8	1004.9	1046.8	1088.9	1130.9	1173.2	1215.1	1257.5



TEST NUMBER: P1444418
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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°	1300.2	1283.9	1267.4	1251.0	1278.0	1305.0	1332.1	1359.5	1386.7	1413.9	1441.0
115°	1362.0	1361.0	1360.1	1359.1	1371.9	1384.8	1397.6	1410.6	1423.4	1436.2	1449.4
117.5°	1287.8	1296.8	1305.9	1315.1	1319.3	1323.4	1327.6	1331.8	1336.2	1340.6	1344.9
120°	1154.9	1166.7	1179.0	1191.3	1189.6	1187.9	1186.5	1184.8	1183.6	1182.0	1181.1
122.5°	999.2	1011.1	1023.4	1035.5	1031.9	1028.3	1024.8	1021.4	1018.3	1015.1	1011.9
125°	854.5	864.4	874.6	884.9	881.3	877.6	874.1	871.0	867.7	864.4	861.7
127.5°	740.4	746.6	752.5	758.9	757.2	755.4	754.3	752.8	751.6	750.6	749.9
130°	662.9	665.5	668.5	671.1	671.6	672.1	673.0	673.8	675.0	676.0	677.5
132.5°	618.1	618.2	618.8	619.3	621.2	623.2	625.7	627.9	630.7	633.1	636.6
135°	593.1	592.2	591.4	590.9	593.8	596.5	599.6	603.0	606.7	610.5	614.4
137.5°	582.4	580.8	579.8	578.4	581.3	584.1	587.3	590.7	594.1	597.9	602.1
140°	578.8	577.5	576.6	575.4	578.4	581.1	584.3	587.5	591.2	595.0	598.8
142.5°	576.3	574.8	574.0	573.1	575.4	578.2	581.3	584.1	587.5	590.7	594.3
145°	579.8	578.7	578.1	577.3	579.1	581.0	583.2	585.4	587.8	590.2	593.2
147.5°	578.9	578.2	577.9	577.2	578.7	580.1	581.6	583.0	585.1	586.8	589.0
150°	575.6	574.9	574.7	574.5	575.4	576.1	577.3	578.1	579.4	580.5	582.2
152.5°	567.8	567.1	567.3	567.0	567.6	568.3	569.3	570.1	571.2	572.1	573.7
155°	562.2	561.7	561.2	560.7	560.8	561.0	561.4	561.6	562.2	562.6	563.1
157.5°	559.8	559.2	558.8	558.1	558.0	557.8	557.8	557.8	558.0	557.7	557.9
160°	557.6	556.5	555.7	554.9	555.1	554.8	555.2	554.9	555.3	555.5	555.7
162.5°	559.5	558.8	558.3	557.6	557.3	556.6	556.2	555.6	555.2	554.8	554.6
165°	560.8	560.0	559.1	558.1	557.9	557.7	557.4	557.1	557.1	556.7	556.8
167.5°	566.3	565.1	564.3	563.4	562.9	561.9	561.5	560.8	560.2	559.6	559.4
170°	568.7	567.8	567.2	566.5	566.0	565.5	565.3	564.8	564.6	564.5	564.5
172.5°	575.1	574.3	573.7	573.2	572.8	572.5	572.3	572.1	571.8	571.8	571.6
175°	579.4	579.1	578.9	578.6	578.2	577.9	577.5	577.2	576.9	576.6	576.4
177.5°	581.6	581.3	581.0	580.8	580.6	580.6	580.6	580.6	580.6	580.4	580.3
180°	580.9	580.9	580.9	580.9	580.9	580.9	580.9	580.9	580.9	580.9	580.9



TEST NUMBER: P1444418
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CANDELA DISTRIBUTION (continued):

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°
0°	46747.2	46747.2	46747.2	46747.2	46747.2	46747.2	46747.2	46747.2	46747.2	46747.2	46747.2
2.5°	46773.0	46760.7	46728.3	46712.4	46682.4	46667.3	46644.0	46628.8	46609.9	46595.9	46588.7
5°	48068.9	48009.1	47889.3	47815.4	47686.0	47600.8	47472.2	47378.0	47245.2	47147.3	47021.9
7.5°	49755.0	49663.2	49509.6	49393.2	49212.2	49073.7	48870.5	48708.0	48483.5	48297.1	48067.7
10°	50441.4	50387.8	50318.9	50244.1	50143.8	50045.3	49906.6	49765.2	49576.7	49389.2	49144.3
12.5°	49426.9	49477.2	49576.7	49623.1	49699.2	49725.0	49759.8	49743.5	49712.7	49636.1	49525.0
15°	46553.4	46763.9	47096.6	47326.6	47649.1	47875.5	48175.1	48367.9	48590.0	48722.7	48848.8
17.5°	41826.9	42234.0	42821.0	43289.2	43917.9	44429.1	45055.4	45547.4	46115.5	46551.4	47015.4
20°	35772.8	36343.0	37153.2	37841.4	38752.4	39524.9	40514.5	41343.5	42310.6	43116.7	43986.7
22.5°	29257.0	29927.6	30856.1	31686.1	32773.9	33745.6	34985.6	36081.6	37389.0	38560.2	39855.8
25°	23110.0	23767.4	24713.1	25572.6	26747.0	27817.3	29171.9	30429.4	31946.6	33361.3	34985.6
27.5°	17838.7	18422.6	19254.0	20027.6	21103.1	22153.9	23528.7	24869.6	26488.5	28008.9	29759.2
30°	13776.6	14250.2	14916.3	15538.7	16402.1	17261.5	18486.0	19726.2	21337.0	22912.6	24707.1
32.5°	10676.4	11080.2	11636.4	12141.6	12806.8	13454.8	14356.6	15347.6	16760.6	18269.8	20004.9
35°	8264.7	8610.2	9083.5	9518.7	10065.9	10580.3	11253.2	11960.5	13038.8	14308.2	15861.1
37.5°	6589.1	6729.9	7067.7	7424.3	7878.8	8301.4	8827.8	9350.8	10122.3	11123.9	12392.4
40°	5010.9	5234.6	5509.5	5790.3	6134.4	6473.5	7051.0	7329.0	7837.0	8556.0	9540.6
42.5°	4043.2	4200.5	4394.0	4589.2	4829.0	5065.2	5357.3	5654.7	6034.5	6521.5	7221.8
45°	3383.4	3486.0	3610.7	3740.9	3898.3	4059.4	4255.1	4459.3	4716.6	5015.9	5441.2
47.5°	2942.6	2999.4	3080.8	3169.6	3277.5	3389.1	3516.3	3646.4	3806.4	3983.9	4226.1
50°	2598.6	2645.9	2709.2	2768.5	2843.1	2957.4	3007.8	3079.7	3175.8	3280.4	3415.8
52.5°	2349.7	2381.1	2420.8	2455.0	2502.1	2544.9	2601.0	2650.5	2717.1	2779.8	2867.3
55°	2155.7	2167.2	2189.7	2211.7	2244.3	2273.6	2312.0	2344.4	2386.9	2424.4	2479.5
57.5°	2006.1	2007.1	2017.5	2028.9	2049.9	2068.2	2094.8	2116.1	2145.5	2169.5	2202.5
60°	1898.4	1892.8	1894.8	1898.8	1910.6	1922.5	1939.5	1953.4	1971.9	1985.4	2004.0
62.5°	1808.9	1799.9	1797.8	1796.8	1802.7	1807.0	1816.2	1823.0	1833.6	1839.4	1849.3
65°	1695.8	1685.2	1681.1	1676.2	1678.0	1676.6	1680.0	1680.2	1685.5	1686.7	1692.5
67.5°	1593.2	1584.3	1579.0	1572.4	1569.5	1564.8	1562.7	1558.2	1557.5	1553.8	1552.9
70°	1499.7	1491.0	1486.5	1480.4	1477.3	1471.0	1467.3	1459.6	1455.2	1448.0	1444.1
72.5°	1391.4	1386.6	1385.2	1381.0	1379.9	1376.5	1375.0	1369.5	1366.4	1360.3	1356.9
75°	1278.2	1274.3	1273.9	1269.7	1269.4	1265.3	1264.2	1258.5	1255.5	1249.4	1246.9
77.5°	1143.5	1137.5	1135.8	1131.0	1132.2	1130.1	1131.9	1127.6	1125.6	1119.6	1117.7
80°	991.6	984.1	980.9	974.5	976.3	973.3	976.3	975.9	978.1	973.3	972.5
82.5°	811.8	803.6	802.0	797.5	800.4	800.7	807.2	803.7	805.1	800.5	802.5
85°	590.8	584.5	575.8	574.6	569.2	574.8	567.4	572.4	564.2	570.0	562.4
87.5°	366.3	353.5	346.7	337.5	334.0	325.2	321.6	315.1	317.0	314.1	315.8
90°	161.3	152.2	152.5	146.4	148.3	143.3	147.1	144.3	148.8	146.0	151.0
92.5°	69.1	72.2	78.0	84.3	89.7	95.5	101.2	107.5	112.9	119.1	124.5
95°	85.2	88.1	95.9	103.5	111.3	119.1	126.8	134.6	142.4	150.0	157.8
97.5°	106.6	108.3	116.0	123.7	131.5	139.2	146.9	155.1	162.9	170.5	178.3
100°	122.1	122.3	144.3	166.3	188.2	210.4	232.4	254.4	276.6	298.6	320.6
102.5°	226.3	231.9	287.5	343.1	398.7	454.3	509.9	565.7	621.3	677.1	732.9
105°	497.9	519.8	604.6	689.7	774.4	859.4	944.3	1029.5	1114.4	1199.5	1284.5
107.5°	922.4	962.3	1039.1	1115.9	1192.4	1269.3	1346.1	1422.9	1499.7	1576.6	1653.8
110°	1299.5	1341.8	1393.2	1444.7	1496.3	1547.7	1599.3	1650.7	1702.6	1754.0	1806.0



TEST NUMBER: P1444418
 CATALOG NUMBER: EHBR1-54-UNV-TA-L840-UPL40

CANDELA DISTRIBUTION (continued):

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°
112.5°	1468.1	1495.5	1525.4	1555.7	1585.7	1615.9	1646.1	1676.3	1706.7	1737.0	1767.4
115°	1462.5	1475.8	1487.3	1499.3	1511.1	1523.0	1535.0	1547.1	1559.4	1571.4	1583.6
117.5°	1349.2	1354.1	1355.8	1358.0	1359.9	1362.5	1364.6	1367.1	1369.5	1372.0	1374.2
120°	1179.7	1178.5	1176.8	1175.3	1173.6	1172.2	1170.7	1169.4	1168.2	1167.0	1165.6
122.5°	1008.8	1006.0	1004.3	1002.9	1001.5	1000.3	999.2	998.3	997.1	996.1	994.9
125°	858.8	856.1	858.2	860.3	862.5	864.9	867.0	869.8	872.2	874.7	877.2
127.5°	748.9	748.4	753.2	758.2	763.2	768.5	773.5	778.8	783.9	789.4	794.4
130°	679.1	680.8	686.8	693.4	699.6	706.2	712.7	719.4	725.7	732.2	738.7
132.5°	639.3	642.8	648.6	654.9	661.0	667.4	673.7	680.1	686.3	692.9	698.8
135°	618.5	622.9	628.4	634.2	639.8	645.9	651.5	657.6	663.0	669.0	674.5
137.5°	605.9	610.2	615.0	619.6	624.2	629.2	634.0	638.8	643.3	648.2	652.7
140°	602.8	607.1	609.7	613.0	615.8	618.7	621.4	624.7	627.3	630.5	633.1
142.5°	597.9	602.0	603.5	605.6	607.6	610.0	612.0	614.1	615.9	617.8	619.5
145°	595.8	598.9	599.3	600.1	600.7	601.4	601.8	602.5	602.8	603.3	603.6
147.5°	591.2	593.4	593.2	593.6	593.6	593.6	593.8	593.9	593.6	593.8	593.8
150°	583.4	585.1	584.5	584.4	583.8	583.6	582.9	582.7	582.0	581.8	581.2
152.5°	574.7	576.1	575.1	574.9	574.0	573.5	572.6	572.3	571.4	570.9	570.4
155°	563.5	564.1	563.6	563.3	562.9	562.6	562.1	562.1	561.9	561.5	561.4
157.5°	558.1	558.1	557.9	557.6	557.2	557.1	556.9	556.8	556.7	557.0	557.1
160°	555.7	556.0	555.6	555.3	555.1	554.7	554.5	554.6	554.6	554.9	555.2
162.5°	554.1	553.9	553.5	553.2	553.0	553.0	552.9	553.2	553.2	553.4	553.7
165°	556.9	557.1	556.3	556.1	555.7	555.4	554.9	554.8	554.9	554.9	554.9
167.5°	559.0	558.8	558.8	558.9	558.9	559.1	559.3	560.0	560.1	560.8	561.0
170°	564.3	564.5	564.1	564.0	563.8	563.7	563.6	563.6	563.7	563.8	563.7
172.5°	571.6	571.6	571.1	570.6	570.2	569.9	569.4	569.2	568.8	568.5	568.0
175°	575.9	575.7	575.5	575.2	575.0	574.5	574.3	573.7	573.5	573.2	573.0
177.5°	580.1	579.7	579.6	579.6	579.4	579.2	579.2	579.0	579.0	579.0	578.7
180°	580.9	580.9	580.9	580.9	580.9	580.9	580.9	580.9	580.9	580.9	580.9



TEST NUMBER: P1444418
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CANDELA DISTRIBUTION (continued):

	137.5°	140°	142.5°	145°	147.5°	150°	152.5°	155°	157.5°	160°	162.5°
0°	46747.2	46747.2	46747.2	46747.2	46747.2	46747.2	46747.2	46747.2	46747.2	46747.2	46747.2
2.5°	46579.3	46578.8	46574.2	46576.3	46577.2	46580.5	46584.5	46588.7	46589.5	46592.8	46593.5
5°	46927.9	46812.7	46727.4	46633.7	46563.1	46499.8	46457.5	46423.9	46410.9	46414.2	46422.0
7.5°	47873.1	47635.3	47438.9	47215.9	47029.7	46832.7	46669.4	46514.1	46401.0	46316.6	46269.5
10°	48910.4	48620.7	48343.5	48020.5	47714.2	47387.3	47091.2	46793.1	46544.5	46328.6	46170.0
12.5°	49370.7	49165.9	48926.3	48621.6	48293.8	47916.6	47535.6	47127.3	46747.5	46394.9	46110.6
15°	48883.3	48883.7	48796.3	48650.1	48422.5	48121.0	47758.1	47332.4	46884.4	46427.2	46009.5
17.5°	47336.2	47628.1	47790.5	47893.2	47861.7	47750.6	47519.7	47192.7	46775.0	46288.1	45778.3
20°	44679.4	45367.9	45858.7	46300.2	46547.6	46712.0	46695.5	46562.5	46265.0	45851.0	45320.1
22.5°	40957.6	42113.2	43025.1	43875.4	44471.7	44956.8	45187.4	45285.2	45150.5	44862.1	44363.6
25°	36437.2	38008.4	39349.2	40650.5	41626.6	42465.5	42969.6	43324.7	43353.0	43202.3	42757.6
27.5°	31414.1	33268.7	34965.8	36695.2	38067.9	39273.8	40065.1	40644.2	40828.3	40804.0	40400.2
30°	26397.5	28344.5	30215.1	32231.7	33930.2	35471.0	36516.2	37299.5	37601.3	37659.1	37270.7
32.5°	21659.8	23579.7	25445.2	27553.5	29422.6	31188.4	32423.3	33353.7	33704.6	33787.4	33361.3
35°	17360.0	19131.3	20904.1	22947.4	24805.9	26634.4	27935.6	28909.7	29237.4	29292.7	28799.5
37.5°	13631.4	15140.5	16685.2	18518.6	20225.3	21942.5	23178.8	24094.3	24333.0	24318.3	23760.1
40°	10491.9	11665.1	12906.3	14415.7	15834.5	17286.3	18330.3	19087.1	19212.5	19119.5	18533.1
42.5°	7889.3	8736.7	9636.6	10763.2	11816.0	12902.5	13662.1	14223.9	14241.7	14094.8	13568.4
45°	5877.5	6704.3	7081.7	7762.8	8441.0	9163.4	9627.2	9974.2	9920.5	9791.2	9391.3
47.5°	4480.6	4798.3	5135.3	5557.7	5952.7	6772.5	6711.8	7269.0	6867.7	7141.4	6538.8
50°	3558.0	3735.6	3917.2	4141.3	4347.7	4562.0	4696.0	4795.9	4783.0	4740.0	4624.5
52.5°	3027.0	3082.0	3171.4	3298.8	3414.1	3530.0	3606.2	3668.2	3669.4	3652.1	3593.8
55°	2530.0	2599.6	2663.9	2747.2	2889.2	2911.0	3020.2	2998.1	3006.7	2976.4	3007.4
57.5°	2230.6	2271.2	2307.4	2356.9	2398.0	2445.8	2474.1	2501.2	2498.6	2492.7	2463.0
60°	2018.5	2040.9	2061.0	2089.9	2112.4	2139.5	2152.5	2166.3	2161.8	2151.8	2125.3
62.5°	1854.9	1869.1	1880.5	1899.1	1912.9	1929.7	1936.4	1942.3	1936.4	1926.9	1903.5
65°	1693.7	1702.7	1710.0	1724.0	1733.8	1748.1	1753.8	1759.4	1753.9	1746.6	1728.7
67.5°	1548.2	1549.0	1548.3	1554.1	1557.0	1565.7	1568.3	1572.2	1566.0	1559.6	1544.6
70°	1437.8	1435.5	1432.8	1435.0	1435.5	1439.7	1440.4	1439.7	1432.3	1421.2	1404.7
72.5°	1351.6	1350.3	1348.2	1350.1	1350.1	1354.0	1352.8	1350.8	1341.7	1330.9	1314.6
75°	1240.7	1239.8	1235.6	1235.8	1232.3	1233.5	1229.1	1226.4	1216.2	1207.2	1192.6
77.5°	1110.9	1108.8	1102.7	1100.5	1093.9	1091.1	1082.7	1078.5	1068.1	1060.9	1048.4
80°	966.0	963.8	956.0	951.7	941.3	934.6	922.2	915.1	903.2	896.1	883.9
82.5°	798.5	799.3	791.6	786.2	771.3	759.9	743.2	734.2	721.0	714.2	701.7
85°	567.9	559.8	564.1	563.7	554.4	544.6	531.0	521.5	510.4	503.8	495.0
87.5°	311.5	313.4	311.2	309.3	302.7	297.7	287.1	281.5	273.4	269.4	262.8
90°	139.9	136.8	126.2	123.3	112.8	107.1	95.4	90.8	79.9	77.5	70.5
92.5°	118.0	111.5	105.3	98.4	92.3	85.8	79.2	72.7	66.2	63.6	61.9
95°	148.4	139.1	129.8	120.3	110.9	101.4	92.2	82.7	73.4	71.4	69.5
97.5°	167.4	156.3	145.2	134.2	123.0	111.9	101.0	89.9	78.8	77.6	76.4
100°	295.1	269.7	244.2	218.5	193.0	167.4	142.1	116.4	91.0	89.6	88.1
102.5°	670.9	608.9	547.0	485.1	423.3	361.2	299.4	237.2	175.4	166.4	157.5
105°	1190.6	1096.8	1003.3	909.5	815.8	721.8	628.3	534.3	440.5	410.5	380.3
107.5°	1565.7	1477.5	1389.5	1301.4	1213.2	1125.3	1037.1	948.9	860.6	807.6	754.6
110°	1736.0	1666.2	1596.5	1526.5	1456.8	1386.9	1316.8	1246.9	1177.0	1131.3	1085.9



TEST NUMBER: P1444418
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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°	1716.3	1665.2	1614.3	1563.0	1511.9	1460.6	1409.7	1358.2	1307.0	1279.4	1251.7
115°	1553.2	1522.4	1491.8	1461.1	1430.4	1399.7	1369.0	1337.8	1307.0	1292.5	1278.1
117.5°	1358.9	1343.4	1328.0	1312.5	1296.9	1281.1	1265.7	1249.9	1234.2	1229.3	1224.3
120°	1161.6	1157.1	1152.4	1147.9	1143.4	1138.9	1134.2	1129.5	1124.6	1125.5	1126.3
122.5°	997.3	999.4	1001.8	1003.6	1006.0	1007.8	1010.1	1011.7	1013.7	1018.0	1022.1
125°	882.3	887.1	892.1	896.9	901.6	906.6	911.5	916.1	921.1	925.1	929.6
127.5°	800.3	805.6	811.2	816.6	822.2	827.6	833.0	838.2	843.6	847.5	851.8
130°	743.8	748.4	753.5	758.1	763.0	767.7	772.6	777.3	782.1	785.4	788.6
132.5°	703.3	707.7	712.2	716.3	720.9	725.1	729.5	733.7	738.5	740.8	743.4
135°	678.1	681.3	684.8	687.9	691.7	694.8	698.2	701.8	705.4	707.1	709.2
137.5°	655.5	658.3	661.2	663.9	666.9	669.7	672.8	675.6	679.0	679.9	681.5
140°	636.1	639.0	641.8	644.8	647.9	650.8	654.1	657.2	660.7	661.7	663.1
142.5°	621.9	624.1	626.5	628.7	631.2	633.5	636.3	639.0	641.8	643.0	644.2
145°	606.4	608.8	611.7	614.2	616.8	619.7	623.1	626.1	629.3	630.2	631.2
147.5°	595.9	598.1	600.6	602.9	605.4	607.6	610.6	613.4	616.3	617.2	618.0
150°	583.7	585.9	588.2	590.7	593.4	596.2	599.0	602.0	605.4	606.6	607.6
152.5°	572.8	575.2	577.9	580.7	583.5	586.5	589.7	592.8	596.0	597.0	598.3
155°	564.0	566.3	569.1	571.8	574.8	577.5	580.6	583.6	586.7	588.0	589.3
157.5°	559.5	561.5	564.0	566.6	569.2	571.8	574.6	577.1	580.1	581.2	582.2
160°	557.3	559.3	561.6	563.8	566.3	568.5	571.0	573.3	575.7	576.8	577.9
162.5°	555.9	558.1	560.3	562.2	564.8	567.1	569.6	571.8	574.2	575.0	576.1
165°	556.7	558.3	560.2	561.6	563.4	564.9	567.0	568.6	570.6	571.3	572.6
167.5°	562.6	563.6	564.8	566.0	567.8	569.0	570.6	571.8	573.3	574.2	575.2
170°	565.0	566.0	567.1	568.4	569.7	570.9	572.1	573.1	574.7	575.4	576.4
172.5°	568.8	569.3	570.3	570.9	571.8	572.4	573.4	574.2	575.0	576.1	576.9
175°	573.5	573.8	574.2	574.5	574.9	575.3	575.9	576.5	576.9	577.7	578.3
177.5°	578.9	579.2	579.4	579.6	580.2	580.4	580.8	581.1	581.5	582.2	583.1
180°	580.9	580.9	580.9	580.9	580.9	580.9	580.9	580.9	580.9	580.9	580.9



TEST NUMBER: P1444418
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CANDELA DISTRIBUTION (continued):

	165°	167.5°	170°	172.5°	175°	177.5°	180°	182.5°	185°	187.5°	190°
0°	46747.2	46747.2	46747.2	46747.2	46747.2	46747.2	46747.2	46747.2	46747.2	46747.2	46747.2
2.5°	46591.9	46591.4	46589.9	46587.7	46585.7	46586.9	46589.0	46594.3	46603.7	46617.2	46634.9
5°	46428.4	46437.9	46443.3	46444.0	46439.1	46436.2	46440.6	46453.5	46479.3	46522.7	46581.2
7.5°	46256.9	46268.6	46286.7	46300.2	46302.8	46299.5	46300.2	46320.3	46367.9	46452.2	46570.6
10°	46073.8	46039.0	46057.3	46090.9	46117.6	46122.4	46125.7	46149.4	46219.1	46346.6	46536.7
12.5°	45904.7	45794.5	45773.2	45803.5	45844.0	45857.0	45853.4	45863.6	45945.2	46113.9	46378.8
15°	45682.2	45474.8	45404.0	45411.8	45461.8	45479.9	45466.6	45446.6	45526.1	45732.1	46075.0
17.5°	45322.2	44987.8	44857.5	44851.8	44910.4	44925.9	44893.7	44831.4	44909.7	45166.8	45592.5
20°	44774.9	44281.3	44036.0	43996.9	44060.6	44042.0	43977.8	43883.5	43986.4	44298.9	44805.1
22.5°	43791.0	43165.5	42746.5	42611.3	42687.4	42636.6	42542.9	42422.5	42559.2	42914.4	43478.1
25°	42183.3	41460.6	40886.8	40564.9	40625.6	40534.6	40432.5	40286.6	40449.7	40857.3	41477.9
27.5°	39820.1	38985.3	38274.3	37741.4	37761.0	37641.9	37524.3	37335.5	37539.0	38021.5	38721.5
30°	36677.7	35711.8	34845.9	34121.7	34056.9	33941.3	33821.0	33573.2	33827.8	34405.5	35223.4
32.5°	32731.4	31659.0	30658.5	29742.8	29570.1	29457.3	29350.0	29064.9	29398.3	30071.8	31011.5
35°	28116.3	26973.9	25889.2	24843.4	24557.2	24444.4	24350.7	24077.5	24493.7	25226.5	26241.4
37.5°	23050.6	21883.6	20806.7	19734.3	19329.9	19177.0	19108.8	18929.8	19409.9	20134.8	21153.9
40°	17850.2	16765.1	15799.6	14852.4	14391.4	14157.4	14121.7	14089.1	14553.2	15182.1	16107.1
42.5°	12985.3	12109.9	11365.4	10641.4	10223.7	9904.0	9903.8	10000.9	10418.7	10889.8	11603.1
45°	8982.3	8394.9	7920.4	7436.7	7566.0	6928.8	7303.2	7111.0	7317.6	7621.3	8085.1
47.5°	6174.5	5853.8	5593.2	5323.0	5125.9	4937.8	4954.3	5075.6	5270.1	5450.3	5691.7
50°	4500.1	4336.8	4204.1	4063.7	3965.7	3882.7	3887.6	3940.0	4042.3	4137.2	4263.5
52.5°	3526.2	3436.0	3364.0	3286.4	3235.0	3193.7	3195.9	3221.4	3276.7	3330.9	3403.4
55°	2906.4	2895.5	2801.8	2732.2	2705.6	2677.9	2682.9	2693.0	2730.6	2762.3	2810.3
57.5°	2435.5	2393.4	2365.4	2328.7	2311.8	2292.4	2296.8	2300.6	2325.7	2347.0	2381.5
60°	2103.1	2073.3	2053.4	2028.4	2017.3	2005.0	2007.8	2010.0	2026.2	2040.0	2064.8
62.5°	1882.2	1855.6	1838.2	1818.9	1811.2	1802.9	1804.8	1805.4	1815.5	1825.7	1844.5
65°	1712.8	1691.6	1677.3	1660.6	1652.4	1643.8	1644.7	1644.7	1653.1	1660.6	1674.6
67.5°	1533.6	1517.6	1508.4	1495.1	1489.6	1480.8	1480.6	1477.8	1483.3	1486.4	1495.8
70°	1389.8	1373.8	1361.7	1349.1	1342.2	1334.4	1334.5	1334.7	1341.2	1347.9	1360.2
72.5°	1300.9	1285.6	1275.0	1263.9	1257.3	1250.7	1249.4	1248.8	1253.5	1257.1	1265.3
75°	1183.3	1171.0	1164.8	1154.4	1149.2	1141.7	1140.5	1137.0	1139.3	1140.0	1146.0
77.5°	1040.6	1029.0	1023.9	1013.3	1009.0	1000.5	999.8	996.0	997.8	996.5	1001.2
80°	877.8	867.3	864.5	855.8	853.8	845.9	844.7	840.1	841.5	837.9	839.6
82.5°	696.3	686.6	684.5	676.5	676.5	669.5	669.1	662.0	662.0	656.0	646.3
85°	490.5	483.4	480.4	473.8	471.9	466.3	463.2	456.5	454.0	449.7	448.4
87.5°	258.8	254.4	250.3	247.2	241.6	231.3	230.5	223.3	223.8	218.9	219.2
90°	68.9	62.6	61.0	55.1	53.4	49.0	47.5	48.0	49.3	49.9	51.5
92.5°	59.6	57.5	55.3	53.2	51.0	48.8	46.6	48.8	51.0	53.2	55.3
95°	67.6	65.7	63.7	61.8	59.8	57.9	56.0	57.9	59.8	61.9	63.8
97.5°	75.2	74.0	72.7	71.5	70.3	69.1	67.9	69.3	70.5	71.7	73.0
100°	86.7	85.3	83.7	82.3	80.9	79.4	78.0	79.7	81.2	82.6	84.0
102.5°	148.7	139.8	130.9	122.0	113.0	104.1	95.1	104.1	113.0	122.1	131.0
105°	350.0	320.1	289.9	259.7	229.4	199.3	169.1	199.5	229.6	259.9	290.2
107.5°	701.6	648.7	595.5	542.5	489.3	436.3	383.1	436.5	489.7	542.7	595.9
110°	1040.0	994.2	948.6	902.9	856.9	811.2	765.3	811.3	857.2	903.2	949.1



TEST NUMBER: P1444418
 CATALOG NUMBER: EHBR1-54-UNV-TA-L840-UPL40

CANDELA DISTRIBUTION (continued):

	165°	167.5°	170°	172.5°	175°	177.5°	180°	182.5°	185°	187.5°	190°
112.5°	1223.9	1196.2	1168.3	1140.7	1112.7	1085.0	1056.9	1085.3	1113.3	1141.5	1169.3
115°	1263.7	1248.9	1234.5	1219.9	1205.1	1190.4	1175.5	1190.9	1206.0	1220.9	1235.9
117.5°	1219.3	1214.4	1209.3	1204.2	1199.0	1193.9	1188.6	1194.4	1199.9	1205.8	1211.0
120°	1127.0	1128.0	1128.7	1129.2	1129.9	1130.4	1130.7	1131.1	1131.1	1131.1	1130.9
122.5°	1026.2	1030.3	1034.2	1038.2	1042.0	1045.8	1049.4	1046.5	1043.4	1040.5	1036.9
125°	933.5	938.1	942.2	946.3	950.2	954.3	957.6	955.2	952.1	949.0	945.4
127.5°	855.6	859.5	863.2	867.2	870.6	874.1	877.3	875.2	872.5	869.9	866.8
130°	791.5	794.9	797.7	800.8	803.3	805.9	808.1	806.9	805.2	803.9	801.7
132.5°	745.9	748.5	750.9	753.2	755.0	757.2	758.6	758.3	757.4	756.4	755.0
135°	711.1	713.0	714.6	716.6	717.8	719.2	719.9	720.4	720.1	719.9	719.1
137.5°	682.5	683.9	684.9	685.8	686.5	687.0	687.2	688.2	688.7	689.6	689.6
140°	664.2	665.6	666.7	667.6	668.6	669.3	669.3	670.5	671.0	671.4	671.4
142.5°	645.6	646.8	647.9	648.9	649.6	650.3	650.5	651.5	652.0	652.4	652.5
145°	632.2	633.0	633.9	634.7	635.1	635.4	635.2	636.6	637.3	638.0	638.5
147.5°	618.9	619.9	620.3	621.0	621.3	621.6	621.6	622.8	623.6	624.3	624.9
150°	609.0	610.2	611.2	612.2	613.0	613.6	613.7	614.6	615.1	615.4	615.5
152.5°	599.3	600.4	601.3	602.1	602.9	603.3	603.6	604.4	605.2	605.7	605.9
155°	590.4	591.6	592.6	593.6	594.3	595.2	595.9	596.6	597.1	597.4	597.8
157.5°	583.2	584.4	585.3	586.3	587.0	588.0	588.8	589.7	590.2	590.9	591.2
160°	578.8	580.0	580.7	581.7	582.5	583.4	584.1	584.9	585.6	586.1	586.8
162.5°	576.9	578.1	578.6	579.6	580.5	581.3	582.0	582.9	583.6	584.2	584.8
165°	573.7	574.9	575.7	576.9	578.1	579.2	579.9	580.6	580.8	581.3	581.5
167.5°	576.1	577.3	578.1	579.2	579.9	581.1	582.0	582.5	582.7	583.0	583.2
170°	577.1	578.2	579.1	579.9	580.8	581.8	582.3	582.6	582.9	583.2	583.4
172.5°	577.7	578.9	579.8	581.0	581.7	582.7	583.6	583.7	583.6	583.5	583.2
175°	578.9	579.9	580.6	581.4	582.0	582.8	583.7	583.4	583.4	583.2	583.0
177.5°	584.0	585.1	586.0	586.7	587.6	588.3	589.3	588.5	588.0	587.3	586.6
180°	580.9	580.9	580.9	580.9	580.9	580.9	580.9	580.9	580.9	580.9	580.9



TEST NUMBER: P1444418
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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°	46747.2	46747.2	46747.2	46747.2	46747.2	46747.2	46747.2	46747.2	46747.2	46747.2	46747.2
2.5°	46659.9	46683.2	46718.9	46751.3	46800.0	46838.5	46896.2	46940.0	47005.2	47047.5	47118.3
5°	46664.0	46755.3	46875.4	46992.5	47133.3	47261.2	47420.1	47555.4	47715.1	47845.4	48008.7
7.5°	46730.0	46906.0	47117.1	47329.7	47570.1	47795.0	48048.5	48277.8	48528.6	48740.8	48972.5
10°	46778.7	47050.2	47361.1	47674.0	48003.4	48309.4	48618.3	48885.2	49134.8	49340.0	49521.4
12.5°	46712.7	47086.7	47485.8	47871.0	48237.3	48554.0	48819.8	49025.1	49166.8	49262.9	49285.4
15°	46488.4	46938.5	47372.2	47756.0	48059.9	48294.3	48415.6	48472.4	48411.4	48310.2	48087.7
17.5°	46069.2	46544.0	46931.8	47234.5	47395.2	47458.7	47358.2	47183.4	46841.7	46462.5	45914.8
20°	45300.9	45743.2	46024.5	46189.6	46146.7	45987.8	45608.4	45147.2	44465.1	43738.1	42778.9
22.5°	43953.1	44339.8	44489.7	44502.0	44239.9	43842.1	43157.8	42366.7	41290.6	40171.9	38796.2
25°	41930.1	42268.8	42292.5	42159.5	41679.8	41035.1	40030.3	38911.2	37448.9	35958.3	34234.4
27.5°	39186.5	39511.3	39431.8	39183.6	38517.6	37655.0	36368.4	34922.8	33120.1	31359.5	29452.4
30°	35737.6	36085.0	35991.6	35673.2	34881.0	33861.4	32347.6	30668.2	28666.7	26786.2	24853.7
32.5°	31610.3	32049.5	31985.0	31682.3	30855.7	29764.6	28122.0	26340.7	24293.0	22440.0	20560.0
35°	26919.0	27452.3	27479.8	27281.9	26514.6	25436.1	23814.1	22089.9	20128.6	18380.1	16643.5
37.5°	21864.7	22482.9	22609.9	22556.5	21920.5	20968.5	19490.7	17944.0	16206.4	14674.0	13188.7
40°	16782.4	17408.2	17625.3	17689.8	17220.4	16483.0	15270.1	14021.7	12605.2	11363.5	10184.1
42.5°	12147.7	12702.4	12912.2	13044.3	12751.2	12259.6	11374.8	10468.2	9430.4	8534.8	7676.2
45°	8436.8	8829.2	8988.8	9121.7	8962.0	8684.7	8126.0	7558.9	6873.9	6288.7	5734.6
47.5°	5898.6	6115.0	6220.4	6284.9	6223.0	6078.3	5774.3	5445.8	5059.1	4717.1	4388.2
50°	4372.2	4487.3	4542.4	4579.8	4534.6	4454.2	4289.7	4110.9	3898.5	3704.7	3515.5
52.5°	3464.8	3530.9	3563.6	3583.7	3557.8	3508.7	3412.8	3306.8	3179.5	3059.8	2996.9
55°	2918.9	2915.5	2991.2	2954.7	2991.2	2909.6	2892.4	2775.9	2670.1	2595.7	2515.0
57.5°	2407.2	2441.5	2456.0	2472.3	2461.8	2446.8	2406.1	2364.4	2308.6	2262.0	2212.2
60°	2083.7	2111.9	2127.9	2144.0	2142.9	2137.4	2113.9	2088.8	2054.0	2026.2	1996.0
62.5°	1860.9	1885.3	1901.1	1916.5	1917.9	1915.6	1897.8	1880.5	1856.8	1839.2	1818.4
65°	1685.5	1702.7	1713.5	1725.8	1725.1	1721.8	1705.6	1691.3	1671.7	1659.6	1644.4
67.5°	1502.1	1515.1	1523.4	1535.0	1537.2	1537.9	1529.1	1522.4	1512.8	1509.4	1504.1
70°	1371.6	1387.4	1400.7	1415.4	1423.4	1427.2	1423.4	1420.0	1414.4	1412.0	1408.0
72.5°	1272.9	1286.2	1296.6	1310.0	1317.4	1322.8	1319.9	1318.0	1313.1	1312.4	1309.6
75°	1150.3	1159.4	1165.3	1175.3	1179.3	1184.4	1182.0	1183.3	1181.7	1185.6	1185.4
77.5°	1002.7	1009.5	1012.3	1019.6	1020.3	1026.4	1027.8	1034.8	1039.9	1051.0	1056.8
80°	836.8	841.1	841.1	848.6	851.9	862.1	866.9	878.5	883.9	893.8	894.7
82.5°	650.0	645.1	650.0	646.9	656.5	667.9	669.5	679.4	681.6	687.8	683.0
85°	444.4	444.1	440.0	440.7	437.8	439.2	437.5	439.3	437.6	437.8	433.3
87.5°	212.9	214.8	210.2	211.7	207.2	209.3	205.3	208.5	203.7	204.4	197.5
90°	52.5	53.9	54.8	56.3	58.4	62.3	66.4	70.3	75.1	79.0	83.3
92.5°	57.5	59.8	62.1	64.2	66.4	73.0	79.4	86.0	92.6	99.0	105.5
95°	65.8	67.7	69.6	71.9	73.9	83.2	92.7	102.1	111.6	121.0	130.5
97.5°	74.5	75.7	76.9	78.1	79.5	90.6	101.7	112.8	123.9	135.1	146.0
100°	85.8	87.2	88.6	90.3	91.7	117.3	143.0	168.5	194.1	219.6	245.2
102.5°	140.2	149.0	158.0	167.2	176.2	238.2	300.4	362.4	424.2	486.3	548.2
105°	320.4	350.5	381.2	411.4	441.5	535.5	629.5	723.5	817.1	910.9	1005.0
107.5°	649.2	702.4	755.6	808.8	862.0	950.4	1038.6	1127.0	1215.3	1303.5	1391.4
110°	995.3	1040.8	1087.1	1133.0	1178.9	1248.8	1319.1	1389.1	1459.2	1529.1	1599.1



TEST NUMBER: P1444418
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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°	1197.6	1225.4	1253.4	1281.1	1309.2	1360.5	1412.3	1463.6	1515.0	1566.2	1617.4
115°	1250.9	1265.4	1280.3	1295.1	1310.0	1341.0	1371.9	1402.9	1434.0	1464.8	1495.8
117.5°	1216.5	1221.8	1227.2	1232.1	1237.4	1253.4	1269.3	1285.2	1301.1	1316.9	1332.8
120°	1130.7	1130.2	1129.9	1129.2	1128.8	1133.5	1138.7	1143.4	1148.4	1153.1	1157.7
122.5°	1033.6	1029.8	1026.3	1022.4	1018.8	1016.8	1015.2	1013.1	1011.7	1009.6	1007.9
125°	941.9	938.1	934.4	930.4	926.5	921.9	917.5	912.7	908.1	903.6	898.8
127.5°	864.0	860.5	857.3	853.6	850.1	844.7	839.7	834.3	829.3	823.8	818.7
130°	799.6	797.0	794.9	791.8	789.4	784.4	780.2	775.4	770.9	766.2	761.7
132.5°	753.7	751.9	750.2	748.0	746.1	741.7	738.0	733.5	729.4	725.2	721.1
135°	718.5	717.4	716.5	715.0	713.7	710.2	707.3	704.0	700.9	697.6	694.5
137.5°	689.7	689.0	688.7	688.2	687.6	684.8	682.3	679.5	676.9	674.1	671.6
140°	671.6	671.2	670.9	670.4	669.9	666.9	664.1	661.3	658.6	655.6	652.9
142.5°	652.5	652.3	652.0	651.5	651.1	648.7	646.9	644.5	642.3	640.2	638.1
145°	638.8	638.8	639.0	638.7	638.9	636.1	633.8	631.0	628.8	626.2	623.8
147.5°	625.5	625.5	625.9	625.9	626.2	624.0	622.0	619.8	618.0	615.7	613.9
150°	615.8	615.8	615.8	615.6	615.5	613.2	611.4	609.1	607.3	604.9	603.0
152.5°	606.2	606.4	606.6	606.7	606.9	604.9	602.8	600.6	598.4	596.0	594.0
155°	598.1	598.3	598.4	598.4	598.4	596.5	594.6	592.6	590.7	588.4	586.5
157.5°	591.6	591.9	592.2	592.4	592.6	590.9	589.2	587.5	585.8	583.9	582.2
160°	587.2	587.7	588.0	588.2	588.7	587.2	586.0	584.3	583.2	581.4	579.8
162.5°	585.3	585.8	586.1	586.3	586.6	585.2	584.1	582.7	581.3	579.4	578.0
165°	582.0	581.9	582.2	582.1	582.2	581.2	580.5	579.5	578.6	577.3	576.4
167.5°	583.5	583.4	583.7	583.6	583.7	583.0	582.9	582.0	581.3	580.5	579.8
170°	583.5	583.6	583.7	583.6	583.7	583.0	582.5	581.8	581.4	580.3	579.6
172.5°	583.2	582.9	582.8	582.7	582.4	581.9	581.5	581.1	580.8	580.3	579.8
175°	582.7	582.3	582.3	582.0	581.6	581.6	581.3	581.3	581.0	580.8	580.5
177.5°	586.3	585.8	585.0	584.4	583.9	583.7	583.6	583.4	583.5	583.2	583.0
180°	580.9	580.9	580.9	580.9	580.9	580.9	580.9	580.9	580.9	580.9	580.9



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CANDELA DISTRIBUTION (continued):

	220°	222.5°	225°	227.5°	230°	232.5°	235°	237.5°	240°	242.5°	245°
0°	46747.2	46747.2	46747.2	46747.2	46747.2	46747.2	46747.2	46747.2	46747.2	46747.2	46747.2
2.5°	47162.1	46870.9	46832.4	46852.8	46901.5	46919.5	46972.1	46986.4	47039.3	47052.3	47103.0
5°	48135.3	47750.3	47769.5	47862.0	48002.2	48085.7	48223.4	48295.5	48427.0	48486.8	48605.6
7.5°	49161.4	48859.1	48953.4	49109.4	49301.1	49433.7	49599.2	49707.0	49849.5	49938.1	50052.3
10°	49665.2	49582.4	49686.2	49809.0	49918.4	50003.9	50074.0	50130.2	50167.0	50201.4	50216.5
12.5°	49281.8	49410.0	49427.7	49415.8	49343.3	49288.0	49163.8	49079.5	48929.6	48838.3	48660.0
15°	47860.5	48142.3	47986.2	47749.9	47404.1	47115.9	46708.7	46405.5	45981.5	45694.0	45268.5
17.5°	45366.1	45721.8	45315.1	44768.3	44072.7	43477.6	42736.6	42148.4	41411.6	40875.7	40188.1
20°	41854.4	42186.9	41461.4	40555.0	39478.9	38573.4	37505.4	36653.4	35661.0	34922.8	34032.0
22.5°	37482.0	37718.9	36696.9	35474.9	34104.0	32972.7	31695.8	30674.4	29541.8	28697.9	27748.0
25°	32644.9	32708.9	31482.9	30075.1	28547.2	27275.7	25912.5	24838.6	23683.6	22828.2	21895.9
27.5°	27762.7	27669.0	26344.0	24851.3	23244.0	21922.4	20592.9	19586.5	18574.9	17804.4	17001.2
30°	23154.6	22927.6	21551.8	20017.6	18457.4	17272.9	16169.1	15360.9	14556.1	13945.0	13300.2
32.5°	18928.8	18608.7	17269.4	15832.0	14517.4	13603.3	12784.8	12173.3	11523.4	11007.1	10466.1
35°	15186.0	14844.8	13658.4	12439.8	11444.8	10771.0	10127.7	9626.0	9074.1	8638.7	8168.8
37.5°	11973.7	11694.1	10700.3	9741.4	8988.8	8466.6	7939.5	7529.5	7073.5	6881.9	6379.8
40°	9243.7	9048.2	8271.2	7564.3	6999.1	6753.8	6218.9	5835.8	5495.0	5214.0	4941.8
42.5°	7210.2	7141.0	6384.9	5833.5	5435.6	5126.5	4828.4	4586.3	4350.7	4157.0	3974.0
45°	5291.2	5236.5	4900.7	4582.5	4311.4	4095.3	3893.8	3727.3	3573.3	3445.6	3329.5
47.5°	4120.3	4102.8	3909.4	3712.1	3541.3	3402.4	3271.7	3161.1	3058.9	2973.6	2946.0
50°	3351.2	3349.0	3235.5	3113.7	2992.0	2911.8	2828.3	2763.0	2697.4	2646.2	2592.2
52.5°	2847.4	2835.1	2758.5	2683.3	2611.1	2558.4	2505.0	2463.3	2419.8	2388.3	2354.6
55°	2451.4	2464.3	2420.0	2375.1	2329.9	2297.1	2259.8	2232.2	2202.3	2182.5	2162.2
57.5°	2176.2	2193.4	2170.2	2144.6	2117.1	2095.6	2069.9	2050.8	2030.8	2018.2	2006.4
60°	1976.1	1994.8	1985.4	1972.6	1955.6	1942.8	1926.4	1915.8	1903.0	1895.9	1889.3
62.5°	1806.3	1829.7	1826.4	1820.3	1809.4	1802.3	1793.3	1788.7	1780.2	1777.1	1773.9
65°	1636.9	1663.2	1662.7	1659.7	1653.7	1651.6	1646.1	1645.0	1640.6	1642.5	1642.0
67.5°	1503.6	1526.5	1531.6	1535.2	1535.0	1536.4	1535.9	1538.1	1538.1	1541.4	1543.5
70°	1407.5	1423.4	1427.2	1431.1	1432.1	1435.2	1435.2	1437.1	1436.6	1439.3	1439.7
72.5°	1310.3	1331.3	1335.1	1338.2	1338.2	1341.2	1339.5	1339.0	1334.9	1334.0	1331.1
75°	1189.4	1216.2	1222.1	1225.9	1226.4	1229.1	1225.4	1223.1	1216.2	1213.4	1208.6
77.5°	1063.1	1090.9	1095.1	1096.5	1094.3	1094.8	1087.2	1082.0	1073.1	1069.4	1064.8
80°	898.6	939.7	943.0	940.4	934.0	932.9	925.5	920.6	910.1	906.5	902.4
82.5°	683.8	732.0	738.8	741.7	736.5	737.7	730.6	727.8	718.1	716.4	709.9
85°	431.8	479.9	487.9	486.6	481.5	480.3	476.0	477.5	476.7	479.2	480.6
87.5°	198.4	245.0	256.3	252.6	252.0	248.8	241.4	244.1	248.6	251.5	251.7
90°	87.5	105.6	109.5	107.3	100.3	97.4	90.9	88.7	83.0	80.7	75.1
92.5°	112.1	118.6	125.1	119.3	113.5	107.7	101.9	95.9	90.3	84.3	78.7
95°	139.8	148.9	158.3	150.5	142.8	135.0	127.2	119.6	111.8	104.0	96.4
97.5°	157.1	167.9	178.8	171.0	163.4	155.4	147.6	139.9	132.2	124.3	116.6
100°	270.7	295.6	321.1	299.1	277.0	255.1	233.1	210.9	188.9	167.0	144.8
102.5°	610.1	671.7	733.4	677.6	622.0	566.3	510.7	455.0	399.4	343.5	288.0
105°	1098.5	1191.7	1285.3	1200.0	1114.9	1030.1	945.0	860.1	775.0	690.0	605.1
107.5°	1479.7	1566.7	1654.4	1577.5	1500.6	1423.8	1346.7	1270.0	1193.0	1116.2	1039.4
110°	1669.1	1737.4	1807.0	1755.1	1703.6	1651.6	1600.2	1548.3	1496.9	1445.4	1393.9



TEST NUMBER: P1444418
 CATALOG NUMBER: EHBR1-54-UNV-TA-L840-UPL40

CANDELA DISTRIBUTION (continued):

	220°	222.5°	225°	227.5°	230°	232.5°	235°	237.5°	240°	242.5°	245°
112.5°	1668.6	1717.9	1768.6	1737.9	1707.7	1677.3	1647.1	1616.6	1586.7	1556.2	1526.3
115°	1526.3	1554.9	1585.0	1572.6	1560.6	1548.3	1536.2	1524.2	1512.1	1500.0	1488.4
117.5°	1348.4	1361.2	1376.1	1373.5	1371.1	1368.5	1366.2	1363.7	1361.5	1359.2	1357.0
120°	1162.5	1164.0	1167.8	1168.9	1170.2	1171.2	1172.7	1173.9	1175.3	1176.7	1178.2
122.5°	1005.8	1000.4	997.3	998.3	999.4	1000.2	1001.4	1002.4	1003.6	1004.8	1006.2
125°	894.2	885.5	879.6	877.1	874.8	872.2	869.7	867.1	864.9	862.6	860.5
127.5°	813.4	804.0	797.5	792.4	787.1	781.8	776.6	771.4	766.3	761.0	756.1
130°	757.1	748.0	742.1	735.6	729.3	722.5	716.3	709.8	703.3	696.9	690.5
132.5°	717.0	707.9	702.6	696.5	690.5	684.0	678.0	671.6	665.3	658.9	652.9
135°	691.2	683.0	678.7	672.8	667.6	661.7	656.0	650.2	644.7	638.7	633.5
137.5°	668.8	660.7	657.1	652.3	648.0	643.3	639.0	634.1	629.5	624.5	620.1
140°	650.1	641.6	637.6	635.0	632.4	629.5	626.9	624.0	621.3	618.5	615.6
142.5°	635.9	627.7	624.3	622.5	620.9	618.9	617.5	615.6	613.9	611.5	609.7
145°	621.3	612.3	608.4	607.9	607.9	607.4	607.1	606.7	606.4	605.7	605.4
147.5°	611.7	602.3	598.6	598.8	599.0	598.9	599.3	599.1	599.5	599.4	599.6
150°	600.7	590.2	585.8	586.5	586.8	587.5	588.1	588.5	589.4	589.9	590.4
152.5°	591.6	579.1	574.2	574.8	575.7	576.2	576.9	577.9	578.8	579.6	580.3
155°	584.1	570.6	565.3	565.3	565.6	565.9	566.3	566.8	567.3	567.7	568.4
157.5°	580.3	566.0	561.0	560.6	560.7	560.7	560.8	561.0	561.3	561.5	562.2
160°	578.2	564.0	559.1	558.7	558.8	558.6	558.6	558.6	558.9	559.1	559.6
162.5°	576.2	562.4	557.8	557.3	557.0	556.9	556.9	556.7	556.9	556.9	557.4
165°	575.1	563.1	558.8	558.6	558.8	558.7	558.8	559.0	559.3	559.5	560.0
167.5°	578.7	568.0	564.6	564.1	563.6	563.1	563.1	562.4	562.4	562.0	562.0
170°	578.7	570.2	567.3	567.1	567.4	567.3	567.1	567.3	567.3	567.2	567.5
172.5°	579.2	573.0	570.7	571.1	571.6	571.8	572.3	572.6	573.1	573.5	574.0
175°	580.3	576.4	575.5	575.4	575.7	575.9	576.2	576.4	576.7	576.9	577.6
177.5°	583.0	581.8	581.3	581.3	581.3	581.3	581.3	581.3	581.3	581.5	581.5
180°	580.9	580.9	580.9	580.9	580.9	580.9	580.9	580.9	580.9	580.9	580.9



TEST NUMBER: P1444418
 CATALOG NUMBER: EHBR1-54-UNV-TA-L840-UPL40

CANDELA DISTRIBUTION (continued):

	247.5°	250°	252.5°	255°	257.5°	260°	262.5°	265°	267.5°	270°	272.5°
0°	46747.2	46747.2	46747.2	46747.2	46747.2	46747.2	46747.2	46747.2	46747.2	46747.2	46747.2
2.5°	47112.5	47167.4	47163.3	47214.6	47212.0	47260.3	47250.7	47292.3	47282.8	47318.6	47297.6
5°	48657.9	48762.4	48796.9	48891.1	48910.7	48995.1	48996.8	49063.8	49055.8	49108.2	49080.3
7.5°	50119.9	50217.3	50263.6	50336.9	50373.5	50434.1	50457.9	50507.7	50519.7	50549.2	50548.3
10°	50243.2	50242.9	50265.8	50255.5	50275.9	50264.1	50289.1	50280.1	50317.0	50307.4	50335.4
12.5°	48583.1	48418.4	48358.2	48210.2	48177.8	48050.9	48059.9	47978.5	48017.8	47967.8	48052.9
15°	45015.3	44633.1	44444.3	44112.1	44007.7	43745.1	43723.8	43549.3	43596.5	43505.2	43638.5
17.5°	39743.2	39141.4	38811.3	38326.0	38133.3	37761.8	37687.4	37462.9	37497.7	37384.6	37545.7
20°	33457.3	32730.1	32313.6	31752.5	31502.2	31059.3	30941.9	30690.7	30722.1	30609.5	30791.9
22.5°	27099.7	26338.6	25868.4	25280.2	24960.5	24544.0	24419.1	24166.8	24181.1	24075.4	24250.7
25°	21257.3	20527.6	20071.2	19537.0	19259.6	18877.7	18746.4	18519.8	18532.6	18445.4	18602.7
27.5°	16444.1	15845.3	15463.4	15015.6	14767.0	14453.1	14325.1	14134.5	14134.0	14070.0	14201.5
30°	12850.1	12350.6	12007.6	11617.6	11384.1	11100.8	10977.1	10806.7	10799.2	10753.8	10858.4
32.5°	10061.3	9617.0	9304.3	8961.0	8751.4	8508.3	8391.2	8254.2	8241.7	8200.6	8286.4
35°	7821.4	7447.1	7178.3	6889.4	6910.6	6551.9	6611.6	6333.0	6257.4	6241.0	6304.7
37.5°	6045.0	5755.2	5536.8	5320.4	5173.7	5022.2	4940.6	4867.3	4858.9	4851.9	4896.6
40°	4731.6	4528.8	4369.9	4221.5	4120.6	4028.0	3977.0	3936.8	3927.2	3921.9	3948.9
42.5°	3829.6	3692.6	3590.2	3499.6	3438.4	3388.1	3360.1	3337.7	3330.2	3330.4	3346.3
45°	3235.5	3152.4	3086.4	3030.1	2991.0	3008.1	2957.6	2984.1	2949.1	2985.3	2961.4
47.5°	2849.3	2778.6	2737.7	2697.9	2674.2	2655.1	2655.8	2656.1	2663.6	2664.8	2672.5
50°	2551.3	2510.4	2481.9	2456.5	2444.2	2434.2	2437.6	2440.3	2447.5	2448.0	2453.8
52.5°	2330.8	2303.8	2286.7	2271.0	2265.4	2259.8	2262.2	2261.1	2264.4	2262.7	2267.3
55°	2151.3	2138.6	2133.2	2127.4	2128.2	2126.7	2127.7	2121.9	2118.5	2114.2	2118.2
57.5°	2004.0	2002.3	2005.9	2008.3	2015.1	2017.5	2019.1	2012.5	2006.2	2000.5	2003.8
60°	1890.5	1893.3	1902.3	1909.5	1919.3	1923.8	1926.6	1922.8	1918.2	1913.6	1916.3
62.5°	1778.6	1782.9	1793.7	1801.8	1813.6	1819.6	1826.4	1826.8	1828.5	1826.8	1828.6
65°	1648.6	1654.1	1663.7	1670.5	1681.4	1686.7	1693.7	1694.9	1698.8	1697.8	1701.2
67.5°	1549.9	1554.8	1562.9	1569.3	1579.0	1584.5	1590.6	1591.0	1592.3	1592.0	1595.1
70°	1444.6	1447.0	1454.3	1459.6	1469.3	1475.1	1482.0	1484.0	1488.4	1489.1	1492.5
72.5°	1332.3	1331.3	1335.6	1338.0	1345.3	1349.8	1358.6	1363.5	1370.7	1372.6	1375.3
75°	1210.0	1209.0	1214.1	1216.2	1222.5	1226.9	1236.8	1243.3	1254.5	1259.2	1258.0
77.5°	1068.4	1070.9	1080.5	1085.9	1094.3	1100.0	1112.8	1123.0	1143.6	1152.7	1143.5
80°	910.1	912.6	922.7	927.8	938.7	945.6	960.0	972.0	990.4	994.5	989.2
82.5°	715.5	716.2	725.3	729.0	743.2	753.4	771.7	781.2	792.7	790.9	789.5
85°	487.9	494.4	505.7	517.0	534.3	550.9	568.1	582.3	572.2	588.0	570.4
87.5°	260.7	260.0	275.3	272.8	297.2	311.2	326.0	333.2	341.1	339.5	339.7
90°	73.5	69.5	69.5	65.2	66.4	61.8	64.1	59.8	63.1	57.7	65.9
92.5°	72.6	69.7	66.4	63.5	60.1	57.1	53.8	50.7	47.5	44.4	47.5
95°	88.6	85.7	82.8	79.7	76.8	74.0	71.0	68.1	65.3	62.4	66.0
97.5°	108.9	107.2	105.4	103.8	102.1	100.4	98.7	97.1	95.1	93.4	95.9
100°	122.8	122.8	122.8	122.8	122.5	122.5	122.5	122.5	122.5	122.5	124.4
102.5°	232.2	226.6	221.1	215.3	209.8	204.1	198.6	193.0	187.5	181.9	190.1
105°	520.1	498.4	476.6	454.9	432.9	411.2	389.4	367.7	345.9	324.2	346.7
107.5°	962.8	923.0	883.3	843.6	803.8	764.2	724.6	684.9	645.4	605.7	641.2
110°	1342.3	1300.1	1257.9	1215.8	1173.7	1131.4	1089.4	1047.3	1005.4	963.3	997.1



TEST NUMBER: P1444418
 CATALOG NUMBER: EHBR1-54-UNV-TA-L840-UPL40

CANDELA DISTRIBUTION (continued):

	247.5°	250°	252.5°	255°	257.5°	260°	262.5°	265°	267.5°	270°	272.5°
112.5°	1496.2	1468.6	1441.5	1414.2	1387.0	1359.8	1332.7	1305.6	1278.6	1251.6	1268.0
115°	1476.3	1463.3	1450.1	1437.1	1424.1	1411.1	1398.1	1385.3	1372.4	1359.6	1360.6
117.5°	1354.9	1350.2	1345.8	1341.4	1336.9	1332.6	1328.3	1324.3	1320.0	1316.0	1306.9
120°	1179.9	1180.9	1181.9	1183.3	1184.6	1186.2	1187.4	1189.0	1190.7	1192.4	1180.1
122.5°	1007.6	1010.3	1013.2	1016.4	1019.5	1022.8	1026.1	1029.7	1033.3	1036.9	1024.6
125°	858.1	860.8	863.6	866.5	869.3	872.8	876.0	879.6	883.1	886.9	876.5
127.5°	751.1	751.8	752.3	753.2	754.0	755.4	756.7	758.3	760.0	761.8	755.2
130°	684.1	682.5	680.8	679.6	678.0	677.1	676.3	675.5	674.8	674.5	671.8
132.5°	646.6	643.4	640.3	637.3	634.5	632.0	629.4	627.4	625.4	623.6	622.8
135°	627.4	623.3	619.1	615.2	611.3	608.0	604.4	601.6	598.4	595.7	596.4
137.5°	615.5	611.5	607.3	603.5	599.5	596.3	592.7	589.7	586.8	584.0	585.2
140°	612.9	608.7	604.6	600.9	597.2	593.8	590.4	587.5	584.2	581.9	582.5
142.5°	607.8	604.5	600.6	597.2	593.8	590.7	587.7	585.1	582.0	579.9	580.8
145°	604.8	602.3	599.4	596.7	594.3	592.2	589.6	587.7	585.8	584.4	584.8
147.5°	599.4	597.7	595.3	593.6	591.5	590.0	588.2	586.9	585.4	584.4	584.5
150°	590.9	589.7	588.2	587.0	585.8	584.8	583.7	582.9	582.0	581.3	581.3
152.5°	581.1	580.1	578.9	577.9	576.7	575.9	575.0	574.3	573.6	573.0	572.9
155°	568.9	568.4	567.9	567.6	567.1	567.1	566.6	566.8	566.4	566.4	566.6
157.5°	562.4	562.5	562.2	562.5	562.4	562.6	562.4	562.9	562.8	563.3	563.6
160°	560.1	560.0	559.7	559.8	559.6	559.5	559.5	559.6	559.6	559.6	560.2
162.5°	557.6	558.1	558.3	558.6	559.2	559.5	560.0	560.7	561.1	561.7	562.3
165°	560.5	560.5	560.4	560.3	560.7	560.7	560.8	561.3	561.4	561.9	562.6
167.5°	561.9	562.2	562.4	562.7	563.1	563.7	564.1	564.8	565.5	566.5	567.0
170°	567.3	567.3	567.3	567.3	567.3	567.7	567.8	568.0	568.2	568.7	569.1
172.5°	574.4	574.4	574.0	574.4	574.0	574.4	574.4	574.5	574.5	574.7	574.9
175°	577.5	578.0	578.3	578.7	578.7	579.0	579.2	579.4	579.7	580.1	580.1
177.5°	581.5	581.6	581.6	581.6	581.6	581.8	581.8	581.8	581.8	581.6	581.8
180°	580.9	580.9	580.9	580.9	580.9	580.9	580.9	580.9	580.9	580.9	580.9



TEST NUMBER: P1444418
 CATALOG NUMBER: EHBR1-54-UNV-TA-L840-UPL40

CANDELA DISTRIBUTION (continued):

	275°	277.5°	280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°
0°	46747.2	46747.2	46747.2	46747.2	46747.2	46747.2	46747.2	46747.2	46747.2	46747.2	46747.2
2.5°	47332.4	47308.7	47332.9	47308.3	47332.9	47303.4	47323.4	47291.5	47299.7	47266.6	47275.1
5°	49122.1	49084.3	49104.4	49055.4	49060.6	48995.1	48993.9	48917.6	48897.6	48810.8	48772.6
7.5°	50569.3	50557.0	50563.9	50532.3	50528.7	50484.0	50462.7	50399.7	50360.0	50280.1	50225.5
10°	50340.2	50377.2	50386.6	50424.3	50432.0	50469.3	50477.0	50514.3	50522.1	50549.7	50550.0
12.5°	48049.0	48174.2	48204.2	48358.9	48424.0	48601.1	48696.1	48891.1	49007.0	49201.6	49321.1
15°	43634.9	43851.6	43938.1	44240.2	44407.4	44760.1	44981.7	45386.8	45672.7	46102.8	46409.7
17.5°	37559.8	37862.7	37999.4	38409.1	38676.5	39197.0	39572.4	40190.0	40662.8	41349.2	41893.2
20°	30823.0	31159.6	31345.2	31812.7	32128.1	32736.4	33204.9	33963.8	34596.8	35466.5	36210.3
22.5°	24305.7	24626.1	24832.0	25307.5	25662.7	26297.2	26820.7	27621.9	28331.0	29311.0	30202.8
25°	18662.2	18955.7	19141.9	19572.1	19905.7	20488.7	20988.6	21759.1	22453.0	23435.9	24350.4
27.5°	14267.1	14512.9	14692.4	15059.1	15353.2	15847.8	16277.2	16914.0	17511.8	18362.3	19176.5
30°	10922.6	11140.6	11315.1	11634.7	11907.3	12335.9	12713.6	13248.5	13743.3	14420.0	15067.8
32.5°	8346.6	8534.3	8689.9	8969.5	9216.9	9603.0	9943.2	10412.0	10836.7	11410.6	11943.5
35°	6364.0	6733.3	6707.0	7092.7	7154.7	7431.8	7735.3	8145.2	8521.3	9009.4	9462.9
37.5°	4939.6	5043.3	5154.6	5325.0	5504.2	5756.2	6012.6	6513.5	6697.1	7066.0	7441.5
40°	3983.2	4053.4	4126.8	4242.0	4367.5	4545.0	4731.8	4970.7	5215.5	5514.6	5820.0
42.5°	3367.4	3407.2	3453.9	3521.7	3598.9	3711.5	3836.4	3998.5	4168.8	4379.3	4594.1
45°	3008.6	2989.8	3003.7	3040.0	3086.6	3155.0	3233.8	3334.2	3445.1	3581.4	3726.6
47.5°	2674.2	2681.7	2685.9	2705.6	2730.6	2776.5	2824.3	2892.4	3023.9	3063.9	3143.1
50°	2453.2	2456.9	2455.6	2465.7	2478.3	2508.2	2539.1	2585.3	2631.4	2692.3	2750.5
52.5°	2268.0	2273.2	2272.6	2279.1	2285.9	2304.8	2324.3	2356.9	2387.1	2425.8	2459.3
55°	2121.8	2128.9	2131.7	2137.3	2140.5	2150.4	2158.2	2173.8	2186.6	2208.6	2228.9
57.5°	2009.3	2019.1	2023.5	2025.5	2021.5	2020.9	2018.4	2021.6	2024.3	2036.1	2047.5
60°	1920.8	1928.6	1929.8	1928.6	1921.3	1916.2	1907.8	1905.2	1903.9	1909.5	1915.8
62.5°	1828.1	1830.9	1829.0	1826.8	1818.4	1813.4	1804.8	1801.7	1798.6	1802.7	1806.0
65°	1700.0	1702.4	1700.0	1698.6	1691.1	1687.1	1679.9	1677.4	1673.2	1674.3	1673.6
67.5°	1595.8	1598.3	1596.3	1594.4	1589.3	1586.8	1581.4	1578.0	1572.9	1571.0	1567.6
70°	1492.0	1493.9	1491.0	1489.1	1483.2	1480.9	1476.0	1474.9	1470.9	1470.0	1466.1
72.5°	1372.6	1372.8	1368.7	1367.5	1363.2	1363.0	1360.8	1362.8	1362.7	1364.7	1363.9
75°	1250.6	1248.8	1243.6	1242.7	1239.5	1241.0	1238.7	1241.7	1242.1	1246.5	1247.0
77.5°	1128.2	1121.8	1111.9	1107.3	1100.6	1099.8	1096.0	1098.6	1097.7	1102.9	1105.0
80°	973.7	965.9	953.2	947.1	939.4	938.2	934.6	938.2	936.5	942.5	946.8
82.5°	777.3	770.6	757.5	752.6	743.6	744.4	740.6	744.4	743.9	752.9	758.2
85°	575.0	570.5	557.0	545.1	531.7	523.9	516.3	514.9	512.7	516.3	519.4
87.5°	332.2	327.9	317.4	310.5	287.1	288.1	278.9	278.4	276.2	274.0	278.9
90°	65.0	71.9	71.3	77.8	78.0	85.3	85.9	92.8	92.8	99.8	100.8
92.5°	50.7	53.8	56.9	60.1	63.3	66.4	69.5	72.6	79.4	85.8	92.9
95°	69.6	73.3	76.9	80.4	84.0	87.7	91.3	94.9	104.8	114.7	124.6
97.5°	98.5	100.7	103.1	105.5	108.0	110.4	112.8	115.2	126.0	136.7	147.3
100°	126.3	128.2	130.2	132.2	134.1	136.0	137.9	139.8	160.7	181.2	201.8
102.5°	198.4	206.5	214.8	223.0	231.5	239.6	247.9	256.1	303.4	350.5	397.6
105°	369.1	391.6	414.3	436.7	459.2	481.7	504.2	526.7	602.3	677.6	753.3
107.5°	676.7	712.3	747.8	783.4	818.9	854.6	890.1	925.8	999.4	1073.2	1146.8
110°	1030.9	1064.9	1098.7	1132.8	1166.6	1200.6	1234.5	1268.7	1313.0	1357.2	1401.4



TEST NUMBER: P1444418
 CATALOG NUMBER: EHBR1-54-UNV-TA-L840-UPL40

CANDELA DISTRIBUTION (continued):

	275°	277.5°	280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°
112.5°	1284.6	1300.9	1317.6	1334.2	1350.7	1367.5	1384.1	1400.9	1423.2	1445.3	1467.6
115°	1361.7	1362.8	1364.0	1365.2	1366.4	1367.6	1369.2	1370.5	1377.8	1384.8	1392.0
117.5°	1297.8	1288.8	1279.9	1271.0	1262.3	1253.7	1245.1	1236.5	1235.3	1234.1	1233.2
120°	1168.3	1156.1	1144.2	1132.0	1120.3	1108.6	1097.1	1085.7	1079.9	1074.2	1068.6
122.5°	1012.7	1000.7	988.9	977.0	965.4	954.0	942.7	931.4	927.6	923.7	920.0
125°	866.5	856.6	846.8	837.1	827.7	818.3	809.1	799.9	800.1	800.1	800.6
127.5°	749.4	743.3	737.5	731.8	726.5	720.9	715.9	710.5	713.7	716.8	719.9
130°	669.2	666.7	664.6	662.1	660.5	658.6	656.9	655.1	660.5	665.1	670.5
132.5°	622.8	622.5	622.6	622.6	623.1	623.5	624.3	624.7	630.5	636.1	641.9
135°	597.2	598.1	599.6	600.9	602.8	604.2	606.2	607.8	613.6	618.7	624.6
137.5°	586.6	588.0	589.9	591.7	593.9	595.8	598.2	600.4	604.9	609.3	613.8
140°	583.9	584.8	586.5	588.0	589.8	591.4	593.7	595.4	599.3	602.7	606.2
142.5°	582.1	582.9	584.4	585.9	587.6	589.2	591.1	592.6	595.4	597.9	601.1
145°	585.8	586.5	587.8	588.8	590.2	591.4	592.9	594.1	596.0	597.6	599.5
147.5°	585.2	585.7	586.6	587.5	588.5	589.5	590.3	591.2	592.6	593.7	595.0
150°	581.7	582.0	582.5	582.7	583.5	584.2	584.9	585.4	586.5	587.5	588.8
152.5°	573.5	573.6	574.0	574.3	574.9	575.4	575.8	576.4	577.6	578.4	579.5
155°	567.1	567.8	568.5	569.0	569.9	570.2	571.1	571.6	572.5	573.1	574.0
157.5°	564.3	564.6	565.5	565.9	566.8	567.3	568.0	568.5	569.4	569.9	570.6
160°	561.1	562.0	562.7	563.7	564.6	565.3	566.4	567.3	568.0	568.5	569.2
162.5°	562.9	563.6	564.3	564.8	565.5	566.3	566.8	567.5	568.6	569.2	570.3
165°	563.6	564.3	565.3	566.0	567.1	568.0	568.8	569.7	570.2	570.9	571.4
167.5°	568.0	568.5	569.7	570.4	571.4	572.1	573.1	573.8	574.5	574.8	575.5
170°	569.9	570.6	571.4	572.1	572.9	573.5	574.5	575.0	575.9	576.5	577.5
172.5°	575.5	576.1	576.7	577.1	577.8	578.6	579.2	579.6	580.3	580.9	581.5
175°	580.1	580.1	580.3	580.5	580.6	580.6	580.8	581.1	581.3	581.5	581.7
177.5°	582.1	582.3	582.5	582.8	583.0	583.2	583.5	583.7	583.7	583.7	583.7
180°	580.9	580.9	580.9	580.9	580.9	580.9	580.9	580.9	580.9	580.9	580.9



TEST NUMBER: P1444418
 CATALOG NUMBER: EHBR1-54-UNV-TA-L840-UPL40

CANDELA DISTRIBUTION (continued):

	302.5°	305°	307.5°	310°	312.5°	315°	317.5°	320°	322.5°	325°	327.5°
0°	46747.2	46747.2	46747.2	46747.2	46747.2	46747.2	46747.2	46747.2	46747.2	46747.2	46747.2
2.5°	47242.0	47244.0	47206.0	47203.8	47168.1	47163.7	47128.9	47118.3	47090.0	47079.8	47051.1
5°	48675.3	48628.9	48521.6	48458.5	48352.5	48282.4	48167.6	48092.8	47982.1	47898.5	47787.1
7.5°	50124.9	50052.8	49932.4	49834.8	49687.7	49570.3	49398.2	49257.3	49070.8	48909.5	48713.7
10°	50550.0	50538.9	50508.2	50463.5	50395.1	50318.2	50201.1	50079.0	49915.5	49738.2	49520.5
12.5°	49504.0	49616.9	49770.9	49862.3	49973.2	50022.0	50067.5	50056.1	50026.1	49936.3	49810.6
15°	46854.0	47171.5	47591.8	47917.5	48292.3	48564.6	48865.4	49052.7	49239.7	49326.0	49378.8
17.5°	42638.7	43239.7	43993.3	44617.9	45338.5	45917.3	46551.7	47029.4	47520.6	47872.4	48190.6
20°	37224.1	38094.9	39160.7	40102.3	41197.3	42148.8	43191.4	44047.4	44930.1	45620.3	46273.6
22.5°	31351.0	32385.2	33673.9	34867.5	36279.0	37547.5	38978.8	40224.5	41525.1	42611.7	43662.3
25°	25575.9	26710.0	28119.1	29450.9	31049.5	32525.0	34222.4	35774.9	37455.9	38915.4	40357.2
27.5°	20302.4	21415.8	22854.4	24272.1	25962.5	27534.7	29353.3	31063.8	32977.9	34743.0	36548.6
30°	15968.0	16912.4	18202.3	19575.4	21242.6	22842.5	24680.9	26440.1	28431.3	30358.5	32392.3
32.5°	12650.9	13370.5	14384.5	15545.6	17083.9	18607.0	20357.5	22055.6	24016.5	25963.3	28078.6
35°	10047.1	10608.3	11381.5	12287.6	13590.3	14903.2	16451.5	17995.9	19825.2	21672.6	23728.6
37.5°	7922.8	8378.0	8983.5	9664.3	10709.1	11786.5	13056.2	14336.5	15926.1	17563.7	19427.0
40°	6186.8	6555.5	7026.9	7534.5	8323.4	9153.6	10135.5	11128.4	12405.5	13743.8	15285.9
42.5°	4860.2	5132.2	5465.1	5836.2	6572.2	7013.1	7678.8	8396.9	9335.8	10307.3	11466.8
45°	3903.1	4088.7	4319.6	4568.4	4910.1	5283.9	5740.0	6218.2	7110.0	7547.5	8252.6
47.5°	3259.6	3384.1	3531.0	3687.8	3889.3	4106.7	4377.1	4653.7	5011.3	5381.9	5816.4
50°	2826.1	2952.7	3003.1	3084.4	3201.0	3325.2	3477.6	3630.1	3821.9	4016.3	4239.9
52.5°	2504.3	2545.6	2600.5	2652.2	2724.4	2865.8	2911.5	2991.2	3098.7	3203.9	3321.4
55°	2258.6	2285.5	2321.2	2352.4	2396.1	2437.8	2498.1	2551.2	2622.8	2686.3	2764.3
57.5°	2067.4	2084.6	2109.3	2129.8	2158.0	2181.6	2216.9	2245.6	2286.9	2322.8	2370.0
60°	1928.5	1939.9	1956.6	1969.9	1987.8	2000.1	2017.7	2031.2	2053.0	2071.2	2097.5
62.5°	1815.0	1820.8	1831.7	1839.6	1851.0	1857.3	1866.6	1872.5	1884.4	1893.6	1908.3
65°	1678.8	1680.2	1687.5	1690.8	1699.8	1703.1	1710.7	1713.5	1723.4	1730.0	1743.0
67.5°	1567.2	1564.2	1564.3	1561.7	1562.9	1560.3	1561.0	1558.2	1562.2	1564.3	1574.1
70°	1465.4	1461.0	1459.6	1455.0	1453.6	1448.7	1447.3	1443.0	1442.5	1441.1	1444.6
72.5°	1366.1	1364.9	1365.2	1361.9	1361.5	1358.3	1358.4	1356.4	1358.6	1359.6	1364.2
75°	1251.9	1252.3	1254.5	1251.6	1252.5	1249.6	1250.7	1248.1	1249.4	1248.9	1253.5
77.5°	1112.9	1116.3	1122.3	1121.1	1123.0	1119.9	1121.3	1117.7	1118.7	1116.3	1118.0
80°	956.7	963.6	971.8	971.5	974.9	972.7	975.7	972.3	973.7	969.5	968.4
82.5°	771.2	777.0	785.7	786.0	793.7	795.1	803.6	803.2	808.5	805.1	802.7
85°	527.2	531.1	538.8	542.9	550.8	555.7	563.7	567.1	561.2	571.9	563.4
87.5°	275.3	285.5	279.8	293.1	290.0	303.5	300.6	313.1	310.7	321.4	320.0
90°	109.7	111.5	120.7	123.0	133.9	137.2	141.7	137.5	141.8	137.9	142.2
92.5°	99.3	106.6	113.3	120.1	126.8	133.8	127.3	121.1	114.7	108.7	102.2
95°	134.5	144.5	154.4	164.3	174.2	184.0	173.4	163.0	152.4	141.8	131.1
97.5°	157.9	168.6	179.2	189.8	200.6	211.2	198.6	186.1	173.4	161.1	148.5
100°	222.3	243.1	263.6	284.1	304.8	325.4	302.1	278.6	255.4	232.0	208.5
102.5°	445.1	492.1	539.4	586.7	633.9	681.1	631.5	582.1	532.2	482.7	433.0
105°	828.9	904.5	980.0	1055.5	1131.1	1207.0	1126.4	1046.0	965.4	885.1	804.5
107.5°	1220.7	1294.1	1368.2	1441.8	1515.6	1589.6	1508.0	1426.3	1344.9	1263.2	1181.5
110°	1446.0	1490.3	1534.8	1579.2	1623.6	1668.3	1608.6	1549.2	1489.8	1430.2	1370.5



TEST NUMBER: P1444418
 CATALOG NUMBER: EHBR1-54-UNV-TA-L840-UPL40

CANDELA DISTRIBUTION (continued):

	302.5°	305°	307.5°	310°	312.5°	315°	317.5°	320°	322.5°	325°	327.5°
112.5°	1489.8	1512.4	1534.5	1557.1	1579.4	1601.8	1559.4	1517.0	1474.4	1432.1	1389.4
115°	1399.5	1406.6	1414.0	1421.5	1428.6	1436.0	1407.5	1379.0	1350.4	1321.9	1293.0
117.5°	1232.1	1231.4	1230.2	1229.6	1228.4	1227.4	1211.6	1195.9	1179.8	1163.9	1147.9
120°	1063.0	1057.3	1051.8	1046.2	1040.5	1034.7	1028.4	1021.9	1015.1	1008.4	1001.6
122.5°	916.2	912.6	908.8	905.1	901.0	897.2	894.8	892.7	890.1	887.8	885.1
125°	800.8	801.0	801.2	801.5	801.5	801.8	800.5	799.6	798.4	797.5	796.2
127.5°	722.7	726.0	728.8	731.7	734.5	737.5	737.3	737.5	737.3	737.3	737.1
130°	675.2	680.6	685.3	690.1	694.6	699.8	699.1	698.8	698.4	697.9	697.4
132.5°	647.7	653.2	658.8	664.6	669.9	675.4	674.7	674.3	673.3	673.0	672.2
135°	629.8	635.2	640.2	646.0	650.8	656.1	655.0	654.2	653.1	652.5	651.5
137.5°	617.9	622.6	626.7	630.9	634.9	639.2	638.0	637.3	636.1	635.5	634.4
140°	609.5	613.2	616.4	619.9	623.2	626.6	625.2	624.0	622.6	621.3	619.9
142.5°	603.5	606.2	608.5	611.4	613.7	616.3	614.1	612.3	610.4	608.5	606.6
145°	601.3	603.3	604.9	606.6	607.8	609.7	607.3	605.2	602.6	600.6	598.0
147.5°	596.0	597.4	598.1	599.3	600.0	601.3	598.8	596.7	594.5	592.1	589.8
150°	589.5	590.8	591.6	592.4	593.3	594.3	591.8	589.5	586.8	584.4	582.1
152.5°	580.4	581.3	582.2	582.9	583.7	584.4	582.0	580.0	577.5	575.0	572.6
155°	574.3	575.2	575.5	576.2	576.4	576.9	574.7	573.1	571.1	569.2	567.0
157.5°	571.1	571.8	572.3	572.6	573.0	573.5	572.0	570.6	569.0	567.7	565.9
160°	569.7	570.2	570.7	571.1	571.6	571.8	570.5	569.6	568.3	566.9	565.3
162.5°	570.9	571.8	572.4	573.0	573.8	574.3	572.8	571.5	570.0	568.5	566.8
165°	572.0	572.5	573.0	573.5	573.7	574.2	573.2	572.3	571.1	570.3	569.2
167.5°	575.9	576.6	576.9	577.5	577.7	578.0	576.9	576.2	575.0	574.0	572.8
170°	577.9	578.5	579.3	579.8	580.3	580.6	580.0	579.3	578.3	577.5	576.4
172.5°	582.0	582.7	582.9	583.4	583.7	584.2	583.4	582.5	581.7	580.8	579.8
175°	581.7	581.8	582.2	582.2	582.2	582.4	581.7	581.0	580.3	579.6	578.8
177.5°	583.7	583.7	583.7	583.6	583.6	583.6	583.1	582.6	582.2	581.7	581.0
180°	580.9	580.9	580.9	580.9	580.9	580.9	580.9	580.9	580.9	580.9	580.9



TEST NUMBER: P1444418
 CATALOG NUMBER: EHBR1-54-UNV-TA-L840-UPL40

CANDELA DISTRIBUTION (continued):

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
0°	46747.2	46747.2	46747.2	46747.2	46747.2	46747.2	46747.2	46747.2	46747.2	46747.2	46747.2
2.5°	47040.8	47020.4	47007.2	46990.4	46980.1	46967.2	46957.6	46949.5	46942.9	46936.9	46932.3
5°	47702.3	47597.2	47515.5	47427.1	47354.6	47282.1	47226.3	47180.1	47148.2	47124.3	47110.1
7.5°	48544.5	48352.0	48180.9	48000.7	47839.1	47680.3	47543.4	47425.4	47336.9	47279.5	47244.7
10°	49296.5	49038.9	48784.0	48515.8	48261.6	48014.9	47787.1	47586.9	47428.3	47323.0	47261.6
12.5°	49633.7	49414.2	49153.9	48862.7	48551.1	48235.7	47928.4	47651.1	47418.5	47262.4	47172.4
15°	49336.8	49246.7	49070.1	48844.0	48548.2	48222.2	47861.3	47522.1	47210.1	47007.7	46890.4
17.5°	48370.9	48496.7	48483.2	48396.7	48184.1	47909.6	47541.9	47160.9	46770.6	46500.1	46352.4
20°	46740.9	47136.2	47336.9	47439.9	47356.3	47178.4	46845.3	46458.7	46003.7	45650.7	45435.2
22.5°	44450.4	45148.4	45583.4	45901.7	45969.2	45908.6	45614.7	45246.8	44739.7	44315.3	43996.9
25°	41501.7	42524.3	43211.8	43750.7	43960.1	44014.1	43764.0	43398.2	42833.0	42338.4	41901.3
27.5°	38028.5	39357.4	40275.2	40999.4	41326.3	41468.1	41237.8	40864.6	40195.8	39605.6	39034.6
30°	34118.4	35695.0	36800.1	37668.5	38066.9	38254.2	38009.6	37593.1	36814.9	36104.5	35385.2
32.5°	29933.4	31658.6	32862.8	33805.8	34200.7	34376.9	34056.9	33589.1	32689.6	31852.8	31013.9
35°	25551.7	27293.0	28507.5	29425.4	29756.3	29862.5	29453.3	28912.6	27916.0	26997.6	26082.9
37.5°	21080.7	22700.9	23804.6	24628.5	24833.2	24851.6	24358.5	23761.3	22713.8	21808.2	20897.7
40°	16648.5	18014.8	18905.9	19565.3	19636.4	19573.0	19036.9	18435.9	17456.0	16644.7	15845.3
42.5°	12473.6	13504.9	14140.7	14592.6	14565.7	14440.4	13948.9	13432.3	12623.9	12005.9	11376.9
45°	8896.8	9576.7	9948.5	10213.0	10128.0	10008.7	9626.2	9264.0	8714.6	8315.5	7892.8
47.5°	6180.7	6992.8	6851.4	7368.3	6923.0	7217.1	6604.5	6266.8	5975.2	5763.2	5524.3
50°	4424.9	4610.9	4700.8	4762.2	4729.6	4684.4	4574.3	4475.9	4342.7	4245.7	4132.6
52.5°	3417.2	3510.2	3561.2	3598.1	3590.8	3574.4	3526.4	3482.5	3420.1	3379.0	3329.5
55°	2894.5	2895.9	2989.6	2949.4	3008.8	2939.2	2966.6	2889.5	2902.0	2835.8	2791.2
57.5°	2405.3	2443.4	2460.5	2477.1	2472.5	2469.5	2451.0	2441.6	2420.7	2414.2	2399.3
60°	2115.8	2135.6	2139.8	2147.5	2141.0	2138.6	2124.0	2118.9	2104.8	2102.3	2092.4
62.5°	1917.2	1927.4	1927.4	1927.4	1919.1	1911.1	1895.0	1886.5	1874.6	1872.0	1866.2
65°	1751.5	1762.1	1763.8	1766.2	1760.1	1753.8	1739.6	1730.4	1718.1	1713.5	1706.8
67.5°	1580.6	1591.8	1595.6	1601.4	1597.9	1596.6	1587.0	1583.3	1575.1	1573.3	1567.2
70°	1446.3	1450.9	1450.6	1450.4	1442.9	1436.1	1424.8	1419.5	1411.0	1409.3	1403.7
72.5°	1366.4	1369.7	1367.6	1364.7	1354.8	1344.8	1331.6	1321.9	1310.8	1303.9	1296.1
75°	1254.0	1258.3	1255.5	1253.7	1244.8	1238.2	1227.7	1222.3	1214.5	1212.2	1206.9
77.5°	1116.0	1118.0	1113.4	1112.9	1106.2	1102.0	1094.1	1092.6	1087.0	1087.2	1082.0
80°	962.3	961.0	953.7	952.4	945.6	943.9	937.7	938.0	933.4	935.3	931.7
82.5°	791.8	787.4	777.9	775.1	767.3	766.6	762.5	765.9	763.2	767.3	764.9
85°	567.4	568.6	564.4	564.4	562.2	562.9	562.5	565.1	565.4	569.3	569.2
87.5°	316.3	320.9	320.0	324.2	324.0	328.6	330.2	337.1	338.0	344.4	344.4
90°	138.3	143.3	139.2	144.3	142.7	149.1	148.6	155.1	153.9	159.2	156.5
92.5°	96.0	89.6	83.5	77.1	74.0	70.4	67.9	64.1	61.3	57.8	54.6
95°	120.5	109.9	99.2	88.6	85.0	81.1	77.5	73.9	70.3	66.7	63.1
97.5°	136.0	123.4	110.9	98.3	95.1	92.0	88.7	85.6	82.3	79.2	76.1
100°	185.1	161.6	138.3	114.7	112.1	109.4	106.8	104.1	101.4	98.6	96.0
102.5°	383.4	333.6	283.8	234.1	224.7	215.2	205.8	196.3	186.8	177.4	168.0
105°	724.0	643.2	562.7	482.0	456.4	430.7	405.2	379.5	353.9	328.2	302.7
107.5°	1099.7	1017.8	936.2	854.2	807.1	759.8	712.4	664.8	617.7	570.2	522.8
110°	1311.0	1251.4	1191.5	1131.6	1093.9	1055.7	1017.5	979.3	941.3	903.1	864.8



TEST NUMBER: P1444418
 CATALOG NUMBER: EHBR1-54-UNV-TA-L840-UPL40

CANDELA DISTRIBUTION (continued):

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
112.5°	1346.8	1304.0	1261.5	1218.5	1201.4	1184.0	1166.9	1149.6	1132.3	1114.7	1097.6
115°	1264.3	1235.5	1206.8	1177.7	1172.0	1165.7	1159.8	1153.6	1147.5	1141.3	1135.0
117.5°	1132.0	1115.8	1099.6	1083.5	1084.5	1085.6	1086.9	1087.8	1088.6	1089.3	1090.3
120°	994.9	988.0	981.5	974.5	980.0	985.2	990.7	995.8	1000.8	1005.7	1010.7
122.5°	882.8	880.0	877.7	874.8	881.6	888.0	894.4	900.6	906.9	912.6	918.6
125°	795.3	794.0	792.9	791.4	798.1	804.7	811.1	817.3	823.5	829.4	835.4
127.5°	737.1	737.0	737.0	736.6	741.6	746.1	750.8	754.9	759.6	763.4	767.4
130°	696.9	696.3	696.0	695.3	699.7	704.0	708.4	712.2	716.3	719.6	723.2
132.5°	671.6	670.8	670.2	669.4	672.8	675.7	679.1	681.5	684.4	686.5	688.9
135°	650.8	649.6	648.9	647.7	650.8	653.7	656.7	659.1	661.7	663.6	665.8
137.5°	633.6	632.4	631.5	630.3	633.2	635.9	638.3	640.5	642.8	644.9	646.5
140°	618.9	617.3	616.3	614.7	617.2	619.5	621.8	623.8	626.0	627.4	629.0
142.5°	604.7	602.5	601.1	598.7	600.7	602.3	604.0	605.4	606.9	608.0	609.0
145°	595.7	593.1	591.1	588.7	590.0	591.3	592.7	594.0	594.8	595.5	596.5
147.5°	587.6	585.1	582.8	580.4	581.8	582.6	583.4	584.0	585.1	585.6	586.0
150°	579.6	576.8	574.3	571.7	572.6	573.3	573.8	574.7	575.3	575.7	576.1
152.5°	570.2	567.8	565.2	562.6	563.2	563.7	564.1	564.5	565.0	565.3	565.5
155°	565.0	562.8	560.7	558.3	559.0	559.3	559.5	559.8	560.0	560.2	560.2
157.5°	564.2	562.2	560.9	558.8	558.8	559.0	559.0	558.6	558.6	558.4	558.1
160°	564.1	562.5	561.0	559.5	559.3	559.3	559.3	558.8	558.8	558.3	558.0
162.5°	565.0	563.4	561.5	559.7	559.5	559.6	559.5	559.1	559.0	558.6	558.3
165°	568.1	566.8	565.5	563.9	563.7	563.4	563.2	562.5	562.2	561.5	561.0
167.5°	571.6	570.4	569.0	567.5	567.5	567.6	567.5	567.3	567.1	566.7	566.6
170°	575.5	574.4	573.5	572.3	571.9	571.8	571.4	571.1	570.6	570.2	569.7
172.5°	578.7	577.7	576.5	575.2	575.2	575.0	574.7	574.5	574.0	573.7	573.5
175°	577.9	577.1	576.0	575.3	575.2	575.0	574.8	574.6	574.3	574.1	573.8
177.5°	580.5	580.1	579.2	578.7	578.6	578.6	578.4	578.2	578.2	578.1	577.9
180°	580.9	580.9	580.9	580.9	580.9	580.9	580.9	580.9	580.9	580.9	580.9



TEST NUMBER: P1444418
CATALOG NUMBER: EHBR1-54-UNV-TA-L840-UPL40

CANDELA DISTRIBUTION (continued):

	357.5°	360°
0°	46747.2	46747.2
2.5°	46928.2	46925.8
5°	47102.6	47099.9
7.5°	47235.4	47234.5
10°	47251.0	47259.1
12.5°	47156.7	47163.3
15°	46881.5	46894.3
17.5°	46355.1	46371.9
20°	45448.3	45465.8
22.5°	43979.8	43987.2
25°	41844.8	41814.6
27.5°	38934.3	38882.1
30°	35234.2	35183.7
32.5°	30822.6	30791.1
35°	25856.7	25836.9
37.5°	20628.6	20588.0
40°	15553.0	15434.9
42.5°	11101.4	10894.0
45°	7672.0	7426.2
47.5°	5355.9	5203.9
50°	4059.6	4010.6
52.5°	3307.9	3296.4
55°	2791.1	2786.1
57.5°	2402.6	2400.9
60°	2097.5	2097.0
62.5°	1870.1	1870.9
65°	1709.9	1710.2
67.5°	1568.8	1567.8
70°	1405.7	1404.5
72.5°	1293.5	1291.6
75°	1206.9	1205.7
77.5°	1083.5	1081.6
80°	934.1	931.7
82.5°	768.4	765.6
85°	573.1	573.3
87.5°	350.6	350.5
90°	161.5	158.0
92.5°	51.9	49.0
95°	59.4	55.8
97.5°	73.0	69.8
100°	93.2	90.6
102.5°	158.5	149.1
105°	277.1	251.4
107.5°	475.4	428.1
110°	826.7	788.5



TEST NUMBER: P1444418
CATALOG NUMBER: EHBR1-54-UNV-TA-L840-UPL40

CANDELA DISTRIBUTION (continued):

	357.5°	360°
112.5°	1079.9	1062.6
115°	1128.4	1122.1
117.5°	1090.8	1091.4
120°	1015.2	1020.0
122.5°	924.0	929.7
125°	840.9	846.5
127.5°	771.1	774.5
130°	725.8	729.1
132.5°	690.7	692.4
135°	667.3	668.8
137.5°	647.7	649.0
140°	629.9	631.0
142.5°	609.7	610.4
145°	597.0	597.4
147.5°	585.8	586.1
150°	576.1	576.2
152.5°	565.3	565.5
155°	560.0	560.0
157.5°	557.6	557.2
160°	557.4	557.1
162.5°	557.7	557.4
165°	560.1	559.4
167.5°	565.9	565.8
170°	569.2	568.9
172.5°	573.0	572.6
175°	573.6	573.4
177.5°	577.9	577.5
180°	580.9	580.9



TEST NUMBER: P1444418
 CATALOG NUMBER: EHBR1-54-UNV-TA-L840-UPL40

CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	18.16	19.23	18.66	19.70	20.20	16.54	17.61	17.03	18.07	18.57
	3H	19.71	20.66	20.22	21.14	21.69	18.97	19.92	19.48	20.40	20.95
	4H	20.50	21.39	21.04	21.89	22.45	20.08	20.97	20.62	21.47	22.03
	6H	21.27	22.09	21.82	22.60	23.18	21.13	21.94	21.67	22.46	23.03
	8H	21.59	22.36	22.14	22.89	23.47	21.57	22.34	22.12	22.87	23.45
	12H	21.83	22.57	22.39	23.09	23.70	21.92	22.66	22.48	23.18	23.79
4H	2H	18.54	19.43	19.07	19.92	20.49	17.25	18.14	17.78	18.64	19.20
	3H	20.41	21.15	20.95	21.69	22.27	19.87	20.61	20.42	21.15	21.73
	4H	21.41	22.08	21.98	22.63	23.25	21.13	21.79	21.69	22.35	22.96
	6H	22.37	22.94	22.96	23.52	24.16	22.31	22.88	22.90	23.46	24.10
	8H	22.76	23.29	23.35	23.87	24.51	22.81	23.34	23.40	23.92	24.56
	12H	23.07	23.54	23.68	24.15	24.79	23.22	23.69	23.83	24.30	24.95
8H	4H	21.79	22.32	22.38	22.90	23.54	21.54	22.08	22.14	22.66	23.30
	6H	22.95	23.38	23.57	24.01	24.65	22.89	23.33	23.52	23.95	24.60
	8H	23.45	23.84	24.10	24.48	25.14	23.50	23.88	24.14	24.52	25.18
	12H	23.88	24.22	24.52	24.84	25.58	24.02	24.36	24.66	24.98	25.71
12H	4H	21.84	22.31	22.45	22.92	23.56	21.60	22.07	22.21	22.68	23.32
	6H	23.06	23.45	23.70	24.08	24.74	23.01	23.40	23.65	24.03	24.69
	8H	23.65	23.99	24.28	24.60	25.34	23.68	24.02	24.31	24.64	25.37

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

Report Prepared for

Cooper Lighting Solutions

Metalux

Report Number: SP1-2506-472-1

Test Date: 07/30/2025

Luminaire Tested: EHBR-60-L840-N

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

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2506-472-1
 Test Lab: COOPER LIGHTING SOLUTIONS
 Photometer: SP1 - 76IN SPHERE
 Measurement Geometry: 4π
 Issue Date: 08/05/2025
 Manufacturer: COOPER LIGHTING SOLUTIONS
 Product Line: Metalux
 Catalog Number: **EHBR-60-L840-N**
 Description: Elevate Round Highbay at, 60000 lumens, 4000K 80CRI LEDs with N lens

Spectral Parameters

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

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



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

REPORT NUMBER: SP1-2506-472-1

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

REPORT NUMBER: SP1-2506-472-1

CIE 1931 Chromaticity Diagram



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



Point lies inside the ANSI 4000K 4-step quadrangle

REPORT NUMBER: SP1-2506-472-1

Photopic Flux vs. Wavelength



Photopic Lumens: NR

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

REPORT NUMBER: SP1-2506-472-1

Scotopic Flux vs. Wavelength



Scotopic Lumens: NR

S/P: 1.55

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

REPORT NUMBER: SP1-2506-472-1

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.99

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

Summary

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



Color Vector Graphics

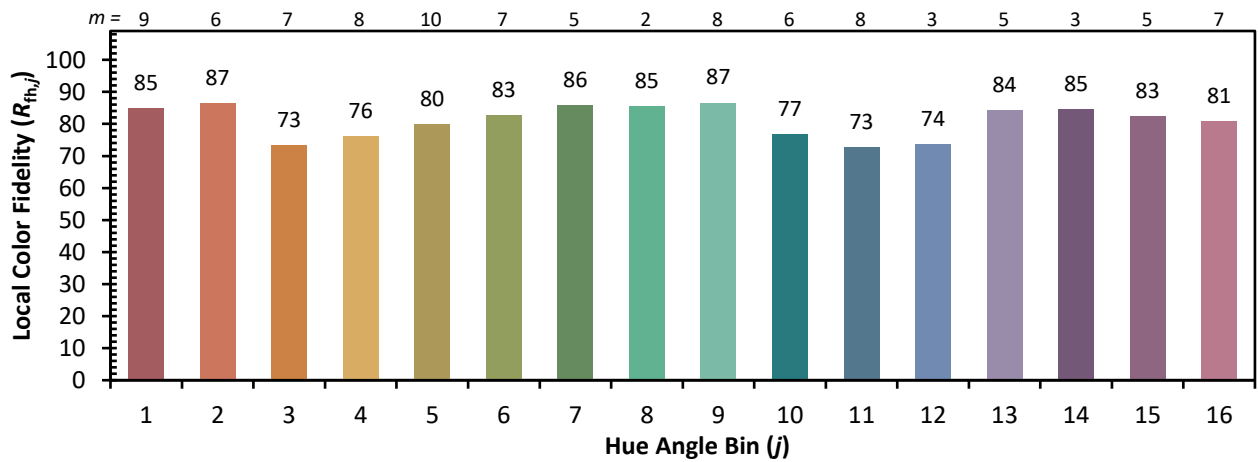


Individual Sample Fidelity Index ($R_{f,i}$)

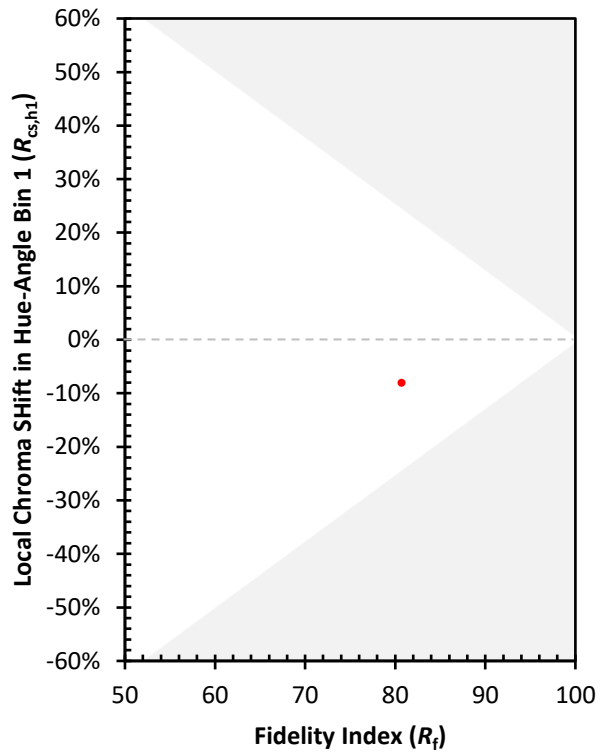
CES01 = 85	CES26 = 69	CES51 = 90	CES76 = 58
CES02 = 61	CES27 = 89	CES52 = 90	CES77 = 76
CES03 = 31	CES28 = 83	CES53 = 80	CES78 = 60
CES04 = 69	CES29 = 66	CES54 = 91	CES79 = 85
CES05 = 48	CES30 = 76	CES55 = 89	CES80 = 79
CES06 = 50	CES31 = 69	CES56 = 79	CES81 = 81
CES07 = 41	CES32 = 62	CES57 = 77	CES82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



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)